Construction News

Testing the Alien Labor Law in Court.

Numerous conferences have been held by those interested in building New York's new Rapid Transit system with the view to finding a way out. The law is simple, clear and mandatory in its provision that "Citizens of the United States shall be employed." The only discretionary power is that "Citizens of the State of New York shall be given preference."

The unions are by no means a unit as to the advisability of pressing the matter, for it is evident if the excavating is delayed, and most of the aliens are employed at that work, that it will throw out of work a great number of skilled citizens during the winter. Three contractors, the Cranford Co., the Dock Contracting Co. and Oscar Daniels, have discharged their alien laborers and thus far are meeting with little or no success in obtaining citizen pick and shovel workers.

The contention that American workmen can be obtained at $2.50 to $3 per day is probably as correct as it is economically unsound. There is no likelihood of any great amount of excavating being done at such wages. That wages are the crux of the matter is seen in the following statement of Antonio Sangimbene, organizer of the Excavators' Union.

"The objections of the other unions to our alien members are largely based on the fact that the alien laborers have worked for small wages. But we are making preparations to demand higher wages for them, and in this we are being assisted by the 1400 members of the Rockmen's Union, 600 of whom are citizens. As there are aliens in nearly all of the unions whose members are engaged in subway work, it seems as if there was too much jealousy on the part of the other unions."

Contractors, although troubled, are pleased that the matter should have been brought up at this time, for there is a chance of repealing the law, and there is more likelihood of securing citizen laborers than at any time in the last four years.

An attempt will be made to test the constitutionality of the law. Such a case will be given preference in the Court of Appeals.

Viewed from another angle it might be advantageous to postpone further work, since progress has been far more rapid than was anticipated, until legislative relief is obtained.

Improved Demand for Bonds—Sales of municipal bonds in October amounted to $13,141,429, according to the "Financial Chronicle;" this is the largest output since the war began, but is still far below previous years. In the three months of August, September and October, the sales have amounted to $33,041,024, compared with $85,546,251 in the corresponding month last year. In fact, the sales for the three months mentioned have not fallen below $60,000,000 in any year since 1911. In spite of the relatively poor showing in the last three months the sales of municipal bonds for the first ten months of the year surpass those of any previous full calendar year.

National and State Debts

Coming as they do at a time when there is widespread inquiry whether state and city governments can continue increasing their indebtedness for public improvements, recent figures published by the Census Bureau throw a new light on the subject.

As is always the case, figures furnished by the government are not brought down to date, still the comparison with former years gives the trend of events. The sums involved are so enormous that for many purposes it is far more convenient and satisfactory to give figures indicating the per capita debt. It is sufficient to show that the national debt amounted to $1,028,000,000 in 1913 and the aggregate debt of the 48 states was $345,000,000. These figures do not include the indebtedness of smaller geographical units such as counties, cities and townships.

Comparison of Debts

The accompanying table shows the debts of the nation and states year by year from 1901 to 1913, inclusive. Under the headings "Amount" six figures are omitted in each case.

	*Indebtedness					
	Total		National		48 States	
Fiscal Year	Amount	Per Capita	Amount	Per Capita	Amount	Per Capita
1913.....	$1,374	$14.15	$1,028	$10.59	$345	$3.57
1912.....	1,327	13.89	1,027	10.75	299	3.15
1911.....	1,291	13.75	1,015	10.81	275	2.95
1910.....	1,302	14.11	1,046	11.34	256	2.78
1909.....	1,265	13.95	1,023	11.29	241	2.67
1908.....	1,177	13.22	938	10.53	239	2.70
1907.....	1,113	12.74	878	10.05	235	2.70
1906.....	1,202	14.01	964	11.24	238	2.79
1905.....	1,228	14.59	989	11.75	238	2.85
1904.....	1,202	14.56	967	11.71	235	2.86
1903.....	1,157	14.29	925	11.42	232	2.88
1902.....	1,208	15.23	969	12.22	239	3.03
1901.....	1,273	16.38	1,044	13.44	228	2.95

*Less sinking fund assets or fund available for payment of debt.

From this it is clear that the national indebtedness, as far as the burden of each individual is concerned, is being reduced in spite of the Panama Canal expenditures, while the States are increasing their indebtedness; especially during the last two years.

Nearly half the indebtedness of all the states is incurred by New York and Massachusetts while the credit of these two states stands perhaps higher than any other in the Union.

While deductions drawn from few figures are apt to be misleading it is worthy of notice that the states of Massachusetts and New York make up more than half the total debt, yet it is well known that these two states can market their bonds at as low a rate of interest, if not lower, than any other states. This might indicate that the market for state bonds is wider than may be indicated.

The accompanying compilation shows the total and per capita debt of the several states.

	Debt, Less Sinking Fund Assets	
State	Amount	Per Capita
Alabama	$13,132,375	$5.95
Arizona	3,064,818	13.28
Arkansas	1,236,066	0.76
California	10,222,744	3.83
Colorado	3,173,949	3.70
Connecticut	7,110,451	6.12
Delaware	763,122	3.70
District of Columbia	.....	....
Florida	619,199	0.77
Georgia	6,934,202	2.57
Idaho	2,143,314	5.92
Illinois	2,272,620	0.39
Indiana	1,350,305	0.49
Iowa	356,670	0.16
Kansas	243,121	0.14
Kentucky	4,441,867	1.90
Louisiana	13,546,150	7.89
Maine	1,254,998	1.67
Maryland	7,333,913	5.56
Massachusetts	79,551,090	22.78
Michigan	7,089,092	2.41
Minnesota	1,345,290	0.63
Mississippi	4,460,519	2.41
Missouri	4,671,218	1.40
Montana	1,512,874	3.73
Nebraska	374,394	0.31
Nevada	607,695	6.70
New Hampshire	1,955,611	4.50
New Jersey	642,069	0.24
New Mexico	1,218,209	3.41
New York	86,205,247	9.05
North Carolina	8,058,430	3.54
North Dakota	820,424	1.29
Ohio	5,142,042	1.05
Oklahoma	6,930,243	3.74
Oregon	36,852	0.04
Pennsylvania	.....	....
Rhode Island	5,126,815	9.02
South Carolina	6,190,036	3.98
South Dakota	370,000	0.58
Tennessee	11,811,640	5.32
Texas	4,656,499	1.14
Utah	1,429,694	3.62
Vermont	569,906	1.58
Virginia	22,043,145	10.46
Washington	1,556,012	1.21
West Virginia	.....	....
Wisconsin	2,251,000	0.93
Wyoming	122,375	0.77
Total	$345,942,305	$3.57

RAILWAYS

New York—Erie R.R.—See item under New Jersey.

New Jersey—Pennsylvania R.R.—The City Council of Rahway, N. J., has granted permission to this company to extend its tracks on Broad St. from Jackson Ave. to the northern boundary of the city. A. C. Shand, Philadelphia, Penn., is Ch. Engr.

New Jersey—Erie R.R.—An expenditure of $3,500,000 is contemplated by this company for the construction of a freight line from Jersey City to Suffern, N. Y. R. C. Falconer, New York, N. Y., is Supt. of Const.

North Carolina—Northampton & Hertford Ry.—This company is preparing plans for the extension of its railway from Jackson, N. C., to Ahoskie, N. C., about 30 miles. J. F. Pennewell, Gumberry, N. C., is Gen. Supt.

S. S. Royster, Orlando Elam and associates contemplate the construction of a railway from Shelby to Casar, N. C., about 16 miles.

Iowa—Chicago, Milwaukee & St. Paul Ry.—Plans are being considered by this company for the enlargement of its yards at Mason City, Iowa. C. W. Loweth, Chicago, Ill., is Ch. Engr.

+Minnesota—Minneapolis, St. Paul, Rochester & Dubuque Traction Co.—A contract has been awarded by this company to A. GUTHRIE & CO., St. Paul, Minn., for constructing a cutoff from the Minnesota River to the new terminal in Minneapolis, Minn.

Utah—Union Pacific R.R.—Contracts will soon be awarded by this company for double-tracking its line from Ogden to Uintah, Utah. Carl Stradley, Salt Lake City, Utah, is Ch. Engr.

Arizona—Mascot & Western Ry.—Surveys have been completed and work will be started next spring by this company on the construction of its proposed railway from Kelton to Mascot, Ariz., about 35 miles. John A. Street, 1611 Harris Trust Bldg., Chicago, Ill., is interested. Noted July 23.

Oregon—Great Southern R.R.—Surveys have been made by this company for the extension of its railway from Friend, Ore., to Juniper Flats, about 29 miles. J. L. Meier, Portland, Ore., is Vice-Pres. and Gen. Mgr.

California—Atchison, Topeka & Santa Fé Ry.—This company contemplates the construction of a five-mile spur from Corona, Calif., to the packing houses in the vicinity. F. M. Bisbee, Amarillo, Tex., is Ch. Engr. Western lines.

Ontario—Pacific, Peace River & Athabasca Ry.—This company has been organized to construct a railway from tidewater to the valley of the Nass River, about 112 miles.

ELECTRIC RAILWAYS

Bangor, Maine—Plans are being prepared by the Bangor Ry. & Electric Co. to build a loop through Post Office Sq., Harlow St. and Central St. John R. Graham, Bangor, is Pres. and Gen. Mgr.

Saybrook, Conn.—The Shore Line Electric Ry. Co. has plans under way for extending its line from Chester to Middletown. Application for a charter permitting the construction of this link will be made to the General Assembly and a separate company organized. Samuel Anderson, Norwich, is Gen. Mgr.

Newark, N. J.—The Board of Public Works has granted permission to the Public Service Ry. Co. to extend its lines and build new lines in Newark. R. E. Danforth, Newark, is Gen. Mgr.

Middletown, Penn.—The Harrisburg Ry. Co. has received a franchise from the City Council to relocate its line. The route will be changed so as to continue on Main St. to Catherine St. and along Catherine St. to Water St. In completing the loop the line will be extended on Catherine St. from Emaus St. Plans are being considered to extend the line over Swatara Creek into Royalton. Frank B. Musser, Harrisburg, is Pres. and Gen. Mgr.

Saylorsburg, Penn.—Plans have been prepared by the Slate Belt Electric St. Ry. Co. for the extension of its line from Wind Gap Park to Saylorsburg and Lake Poponoming. L. H. Mountney, Pen Argyl, is Gen. Mgr. and Pur. Agt.

Washington, D. C.—The Washington Ry. & Light Co. plans to extend its lines over Portland St. from Anacostia to the Firth-Sterling Steel plant at Giesboro Point.

Corinth, Miss.—Arrangements are being made to build an 80-mile railway between Corinth and Nashville. It has not yet been decided whether the line will be electric, gas-electric or steam. Carl H. Fuller, Corinth, formerly engineer of the Macon Ry. & Light Co., Macon, Ga., is investigating the possibilities of the proposed road. Allen W. Jones, Bradentown, Fla., and Clopton C. Thomas, Corinth, are interested.

New Orleans, La.—The New Orleans Ry. & Light Co. plans to improve its lines. M. S. Sloan, New Orleans, is Gen. Mgr.

Sandwich, Ill.—The Aurora & Mendota Electric Ry. Co. has applied to the City Council for a franchise to construct and operate an electric railway in Sandwich. This is part of a proposed line which will connect Aurora, Princeton, Yorkville, Plano and Sandwich. Noted Sept. 24.

Davenport, Iowa—The Tri-City Ry. Co. will extend its line on Oregon St. in Muscatine. J. G. Hunton, Davenport, is Vice-Pres. and Gen. Mgr.

Plentywood, Mont.—Plans are being considered for the construction of an electric railway from Plentywood to Raymond.

Cleburne, Tex.—The Cleburne St. Ry. Co. is preparing plans for the extension and improvement of its lines in Cleburne. A. M. Morgan, Cleburne, is Pres. and Gen. Mgr.

Dallas, Tex.—The Dallas Consolidated Electric St. Ry. Co. has adopted plans for improvements to cost about $40,000. New rails will be laid upon the Main St. line, between Exposition and Haskell Ave. Edward T. Moore is Gen. Mgr.

Houston, Tex.—Surveys are being made by the Beaumont, Liberty & Houston Traction Co. for the construction of its proposed electric railway from Houston to Beaumont. E. Kennedy is Pres. and Charles Fox. is Ch. Engr.

Robert Lee, Tex.—The construction of an interurban electric railway from Robert Lee to Bronte is being promoted by the property owners of the two towns and along the route of the proposed line. The road will be about 10 miles long.

Lewiston, Idaho—The State Highway Commission has granted a franchise to A. G. Nortz, Lewiston, to construct and operate a street car line across the Lewiston-Clarkston bridge.

Tucson, Ariz.—The Tucson Rapid Transit Co. has under consideration plans for the construction of several miles of extensions of its lines. It has applied to the City Council for a new 25-year franchise.

Prineville, Ore.—The Metolius, Prineville & Eastern Ry. Co., recently incorporated, has completed surveys for the construction of an electric railway from Prineville to Metolius, about 32 miles. H. B Scheel, Prineville, is Pres.

San Rafael, Calif.—The California Terminal Ry. Co. is securing the right-of-way for its proposed electric interurban railway from San Rafael to Sacramento, about 90 miles. C. W. Conlisk, San Francisco, is interested.

Stockton, Calif.—The Stockton Electric Ry. Co. has been requested to consider plans for extending its tracks on Fourth St. Frank W. Webster, Stockton, is Gen. Mgr.

Ottawa, Ont.—The Morrisburg & Ottawa Electric Ry. Co., recently organized, plans to construct an electric railway in Ottawa. J. G. Kilt, Citizens Bldg., Ottawa, is interested.

LIGHT, HEAT AND POWER

New Britain, Conn.—Walter P. Crabtree, Arch., has prepared plans for a boiler house for the new vocational high school. The building will be 49x74 ft., with a 125-ft. chimney, and will be equipped with six tubular boilers and possibly a lighting plant. Bids will be received at the same time for the high school building.

Trenton, N. J.—Mayor Frederick W. Donnelly has recommended to the City Commission an investigation of the city's property at Sanhican Creek, with a view to establishing a municipal hydro-electric light and power system.

Hastings, Penn.— At the recent general election the citizens voted in favor of a bond issue of $32,000, to be used for the establishment of a municipal electric lighting system.

+Pittsburgh, Penn.—It is reported that the contract for electrical work in the Schenley High School has been awarded to the CRAIG ELECTRIC CO., Pittsburgh, at $35,900. Noted Nov. 19.

Staunton, Va.—The City Council has authorized the issue of $30,000 in bonds for the purpose of reconstructing the municipal electric light plant. It is understood that entire new equipment will be purchased. J. S. Gabbert is Supt. of the plant. Norton Argenbright is City Clk.

Princeton, Ky.—At the recent general election, the question of a bond issue for the installation of a municipal electric light plant was defeated. Noted Oct. 1.

Mason, Ohio—Bids will be received until Nov. 30, by R. W. Gutermuth, Village Clk., for the construction of a power plant and equipment for the same, including boiler, engine, pump, generator, exciter, switchboard, transformer, etc.

Tiffin, Ohio—It is reported that the Ohio Light & Power Co., Tiffin, is preparing to move its plant from the present location in the center of the city to a point in the suburbs along the route of the Cleveland, Cincinnati, Chicago & St. Louis Ry. Frank Espy, Tiffin, is Mgr. and Cont. Agt.

Roann, Ind.—The Roann Light & Power Co., recently incorporated, will equip an electric light and power plant to furnish energy to Roann and adjacent territory. The work will include the construction of about 11 miles of transmission line. R. F. Shuler is Secy. of the company.

Detroit, Mich.—The Public Lighting Commission has had plans prepared by Smith, Hinchman & Grylls, 710 Washington Arcade, Detroit, for the construction of an addition to the municipal electric light plant. The new building will be used as a switchboard and transformer room and will cost about $14,000.

Melrose, Wis.—A special election has been called for the purpose of voting a bond issue for the construction of a municipal electric lighting and water pumping station. Equipment will include pumps, water mains, reservoir, electric generators, poles, wires and other equipment. Andrew Lutz is Village Clk.

+Lake Park, Iowa—The Town Council has awarded the contract for the construction of an electric light system and transmission lines for the towns of Lake Park, Harris and Ocheyedan, to the STERLING ELECTRIC CO., Minneapolis, Minn., at $22,000. Other bidders were: The Rock Island Construction Co., Rock Island, Ill., $24,150; Beck Electric Co., St. Paul, Minn., $22,250.

Kearney, Neb.—The State Railway Commission has permitted the Kearney Water & Electric Power Co. to issue $35,000 in bonds, of which the proceeds of $20,000 will be used to purchase new equipment for the power plant of the company. John R. Betts is Supt. Noted Oct. 8.

North Bend, Neb.—It is reported that the contract for the construction of the proposed municipal electric light plant will be awarded in about a month. C. A. Norgran, care Fairbanks, Morse & Co., Omaha, Neb., is Engr. in Charge. Noted Aug. 27.

Eureka, Mont.—The Eureka Lumber Co. will include a power house in the rebuilding of its plant, which was recently destroyed by fire. The power plant will be equipped with a 900-hp. engine and five 150-hp. boilers. Dion & Horstkette, Minneapolis, Minn., are in charge of all construction work. C. A. Weil is Pres. of the Eureka Lumber Co.

Waco, Tex.—The Texas Power & Light Co. has entered into an agreement with P. N. Barnsdall, Pittsburgh, Penn., for the installation of a pipe line for natural gas from the Mexia fields to Waco. The work will cost approximately $250,000. Noted Nov. 12.

Ogden, Utah—The Grand Canyon Canal & Power Co. has been incorporated with a capital stock of $200,000 and will develop power on the John Days River in eastern Idaho and western Wyoming, for general hydro-electric work. H. J. Craven, Ogden, Utah; Sidney W. Badcon and C. H. Gosling, both of Pocatello, Idaho, are the incorporators.

✚Ashton, Idaho—The Ashton-St. Anthony Power Co. has awarded the contract for the construction of a concrete dam to MALCOLM & LARSON, Ashton, at $54,000.

✚Pocatello, Idaho—The Oregon Short Line R.R. has awarded the contract for the installation of a hot-water heating system in the new shops and roundhouse at this point to the JESSE COOGAN ENGINEERING CO., 404 State St., Salt Lake City, Utah. The same company has been awarded contracts for heating, plumbing and power plant equipment in the new Union station at Pocatello.

Ashland, Ore.—The City Council is considering the establishment of an auxiliary electric light plant, estimated to cost $32,000.

Nome, Alaska—The Seward Peninsula Power Co. plans to make extensive improvements to its power house and extend its distribution lines. This company furnishes light, heat, power and fire protection to the city. A. J. McConnell is Gen. Mgr.

Dresden, Ont.—The City Council has engaged J. T. Bridgewater, Dresden, to prepare plans and receive bids for the construction of a new hydro-electric lighting system for the town. Noted July 30.

Fort William, Ont.—S. J. McQueen, 23 Murray Block, Fort William, will receive bids soon for about $25,000 worth of electrical equipment for the new transformer station of the Consolidated Elevator Co. Noted Nov. 5.

Waterford, Ont.—The Hydro-Electric Power Commission of Ontario will shortly ask bids for the construction of a brick substation at Waterford. W. W. Pope, Continental Life Bldg., Toronto, is Secy. of the Comn.

BRIDGES

✚Bristol, Conn.—(Official)—The Common Council has awarded the contract for the construction of two small bridges on Pond St. and Terryville Rd., to DEAN & CO., Plainville, Conn., and J. E. GOODRICH, Glastonbury, Conn., respectively. Noted Oct. 22 and Nov. 12.

✚New York, N. Y.—(Borough of Bronx)—(Official)—The contract for repairing, cleaning and painting the bridge over the tracks of the New York, New Haven & Hartford R.R., at East 153d St., has been awarded to CONNERS BROS. CO., Kingsbridge Rd., at $25,920. Other bids were: Jobson-Gifford Co., $31,812; Snare & Triest, $32,130; Marble Arch Co., $31,660; N. B. Smythe, $29,430. Noted Oct. 1, 22 and 29.

★Northfield, N. J.—(Official)—Bids will be received, until noon, Dec. 9, by the Board of Chosen Freeholders of Atlantic County, Memorial Hall, Atlantic City, N. J., for the construction of a highway bridge with approaches over English Creek on the road from Northfield to Mays Landing. A. H. Nelson is County Engr. George B. Jeffers is Chn., Rd. Com. See advertisement under "Contracts To Be Let" in issue of Nov. 19.

★Somers Point, N. J.—(Official)—Bids will be received, until noon, Dec. 9, by the Board of Chosen Freeholders of Atlantic County, Memorial Hall, Atlantic City, N. J., for the construction of a highway bridge over Patcong Creek near Somers Point, Atlantic County. A. H. Nelson, 638 Bartlett Bldg., Atlantic City, is County Engr. James Clark is Chn., Bridge Com. See advertisement under "Contracts To Be Let" in issue of Nov. 19.

Pittsburgh, Penn.—(Official)—Bids will be received until noon, Dec. 4, by R. J. Cunningham, Controller of Allegheny County, for the construction of Bridge, No. 19 over Pine Creek, Shaler Township. It will be of reinforced concrete, faced with stone. J. G. Chalfant is County Engr.

✚Wilkes-Barre, Penn.—The city has awarded the contract for the construction of a 1200-ft. reinforced concrete railway viaduct to the C. M. NEELD CO., Henry W. Oliver Bldg., Pittsburgh, at about $90,000. The expense will be borne by the three railways who will use the bridge, the Public Service Commission to determine the share each road will pay.

Charleston, W. Va.—It is reported that the Charleston, Parkersburg & Western R.R. Co., C. P. Peyton, Ch. Engr., will receive bids, until Jan. 1, for the construction of a number of bridges on a 56-mile railway to be built from Charleston to Palestine, W. Va.

Milton, Fla.—Bids will be received until Dec. 7, by the Board of Commissioners of Santa Rosa County, H. W. Thompson, Clk., for the construction of two steel drawbridges, one over the Blackwater River at Milton, and the other over the Escambia River near Chumuckla Mineral Springs, Fla. Henry H. Mentz, Milton, is Consult. Engr.

Laurel, Miss.—Bids will be received until Dec. 7, by the Board of Highway Commissioners of the Second District, Jones County, for the construction of a 110-ft. steel bridge over Horse Creek. W. H. Bufkin is Clk. F. T. Myers is Engr.

Vicksburg, Miss.—(Official)—Bids will be received until noon, Dec. 9, by the Chancery Clerk of Warren County, Vicksburg, and the Chancery Clerk of Hinds County, Jackson, for the construction of a 520-ft. steel bridge over the Big Black River near the Alabama & Vicksburg Ry. at Holt's Ferry. Moore & Thomas, Vicksburg, are Highway Engrs. Noted Oct 29 and Nov. 19.

Cincinnati, Ohio—The Department of Public Service is considering the construction of a concrete viaduct over Kemper Lane, at an estimated cost of $165,000. Philip Fosdick is Dir. of Pub. Ser.

Dayton, Ohio—Bids will be received soon by the Commissioners of Montgomery County for the construction of the Stewart St. canal bridge. Bonds for $15,000 to pay for the bridge and $7600 for the approaches have been issued. Victor C. Smith is County Engr.

✚Toledo, Ohio—(Official)—The Board of Commissioners of Lucas County has awarded contracts for bridge work from bids received Nov. 13 to the following: M. RABBITT & SON CO., Toledo; EMIL WOLFF, East Toledo; E. N. OBERLE, Grand Rapids, Ohio; W. J. DEMUTH, Whitehouse, Ohio; STANDARD ENGINEERING CO., Toledo. Charles J. Sanzenbacher is County Audr. Noted Oct. 22.

Zanesville, Ohio—It is reported that the citizens are promoting a plan to build a new bridge at Third St. next spring. John S. Dennis is City Engr.

✚Columbus, Ind.—(Official)—The Commissioners of Bartholemew County have awarded the contract for the construction of the Clifty Bridge on the Hartsville Pike to the CRAIG CONSTRUCTION CO., Greensburg, Ind., at $11,100. Other bidders were: Vincennes Bridge Co., $11,480; Central States Bridge Co., $11,822; Brookville Bridge Co., $11,990; Caldwell & Drake Iron Works, $11,567. The last named firm will furnish and erect the 200-ft. steel superstructure. Noted Oct. 29.

✚Fort Wayne, Ind.—(Official)—The Board of Commissioners of Allen County has awarded the contract for the construction of the bridge over the St. Mary's River at Harrison St. to the CARMICHAEL & CRYDER CO., St. Louis, Mo., at $70,474. Other bidders were: H. J. Collins & Co., Cleveland, Ohio, $72,-874; Turner Improvement Co., Des Moines, Iowa, $73,200; Hickey Construction Co., St. Louis, $74,947; Indiana Engineering Co., Fort Wayne, $74,989; Cleary-White Construction Co., Chicago, $79,341; A. Y. Yawger & Co., Indianapolis, Ind., $79,-440; O'Lake & Hagan Co., Chicago, $84,766; Dravo Construction Co., Pittsburgh, Penn., $89,950. Noted Oct. 29.

Mosinee, Wis.—It is reported that the Village Board and the Town of Kronenwetter plan to build a reinforced-concrete bridge, estimated to cost $25,000, over the Wisconsin River at Mosinee. The State Highway Department will pay a part of the cost. M. W. Torkelson, Madison, Wis., is State Bridge Engr.

✚Porterfield, Wis.—The Commissioners of Marinette County, Marinette, have awarded the contract for the construction of a steel bridge at Porterfield to the VULCAN MFG. CO., Fond du Lac, Wis.

Spencer, Iowa—At the recent election, the citizens of Clay County voted a bond issue of $42,000 for the construction of a concrete bridge over the Little Sioux River at the south end of Main St., Spencer. The bridge will be about 350 ft. long and 36 ft. wide. Plans will be prepared by the State Highway Commission, Des Moines.

Breckenridge, Minn.—Bids will be received until Dec. 5, by P. E. Truax, Audr. of Wilkin County, for the construction of ten bridges, one 26x20 ft., two 24x16 ft., one 24x20 ft., four 20x16 ft., and two 20x20 ft.

Salina, Kan.—Bids will be received until Dec. 15, by A. W. Godfrey, Clk. of Saline County, for constructing a bridge over the Smoky Hill River at Iron Ave., Salina. Wilmarth & Zerbe, Salina, are Engrs. in Charge. Noted Aug. 27 and Nov. 12.

Miller, S. D.—Bids will be received until Jan. 8, 1915, by the Auditor of Hand County, for the construction and repair of all county bridges for the year 1915.

St. Louis, Mo.—(Official)—Plans are being prepared for the completion of the Municipal Free Bridge over the Mississippi River, for which $2,750,000 in bonds was voted at an election on Nov. 6. The approaches will consist of steel trestles, including a combined railway and highway approach, 2363 ft. long, a railway approach of 10,975 ft. and a highway approach 2943 ft. long. The actual construction work will probably not be begun before February, 1915. Clinton H. Fisk is Ch. Engr. of Const. Noted May 14, Oct. 22 and Nov. 12.

Little Rock, Ark.—(Official)—We are advised that the Commissioners of Pulaski County have made no appropriation for the construction of a bridge between Little Rock and Argenta, but have left the matter to the judgment of County Judge Joseph Asher with power to decide the matter. H. S. Turner is County Clk. Noted Nov. 12.

Dallas, Tex.—It is reported that the Union Terminal Co., together with the street railway and interurban companies, is considering the construction of a viaduct over the railway tracks on Jefferson Ave.

✚San Antonio, Tex.—(Official)—The City Council has awarded the contract for the construction of the new St. Mary Bridge to the TEXAS CONSTRUCTION CO., at $14,442. Hans Heiland is City Engr.

Victoria, Tex.—The Commissioners Court of Victoria County will soon award the contract for the construction of a bridge across Coleto Creek. The estimated cost is $9000.

✚Enid, Okla.—(Official)—The Commissioners of Garfield County have awarded the contract for the construction of a concrete bridge on the line between Garfield and Grant Counties to the OREGONIA BRIDGE CO., Lebanon, Ohio.

Oklahoma City, Okla.—It is reported that bids will be received until Dec. 9, by the Board of Commissioners of Oklahoma County, for the construction of 20 bridges, at a total cost of about $30,000; the largest structure will be over the North Canadian River near Harrah, to cost about $4500. H. C. Adams, County Engr., has charge of the work.

Tulsa, Okla.—Bids will be received until 6 p.m., Dec. 7, by R. E. Curran, County Clk. of Tulsa County, for the construction of four bridges.

✚Colorado Springs, Colo.—(Official)—The City Council received the following bids, Oct. 21, for the reconstruction of the Bijou Viaduct, (a) two west arches, (b) entire viaduct: Robert Clough & Co., Colorado Springs, (a) $21,347, (b) no bid; CENTRAL CONSTRUCTION CO., Colorado Springs, (a) $21,385 (awarded contract), (b) $39,406; Fox & Smith, Florence, Colo., (a) $22,500, (b) $42,000; Martin Carroll Co., Kansas City, Mo., (a) $21,594, (b) $39,468; Shelly-Hare, Colorado Springs, $22,500, (b) $47,500; Midland Bridge Co., Kansas City, Mo., (a) $24,500, (b) $48,000; Missouri Valley Bridge Co., (a) $25,000, (b) $45,-700; Pueblo Bridge Co., Pueblo, Colo., (a) $21,392, (b) $39,000. F. F. Mallon is City Engr. Noted Aug. 27 and Nov. 12.

Grangeville, Idaho—The Grangeville Commercial Club has appointed a committee to devise a plan for the construction of a bridge over the Salmon River, to connect the western portion of Idaho County with the remainder of the county. A. F. Parker, C. E. Branscombe and W. W. Brown form the committee.

Provo, Utah—It is reported that the Commissioners of Utah County will build a new bridge over the Jordan River at Kirkham.

Reno, Nev.—The City Council and the Board of Commissioners of Washoe County are considering the construction of a steel or concrete bridge over the Truckee River, estimated to cost $12,000. J. R. Meskimons is City Engr.

Tucson, Ariz.—A special election will be held Dec. 14, to vote for several issues of municipal bonds, included in which is one of $45,000 for the construction of a reinforced-concrete bridge over the Santa Cruz River. L. O. Cowan is City Clk.

Spokane, Wash.—The Commissioner of Public Works has recommended to the City Council the construction of a concrete arch at the south approach of the Monroe St. Bridge. The estimated cost is from $25,000 to $30,000. Morton Macartney is City Engr.

Portland, Ore.—Bonds to the amount of $250,000 have been sold and the preliminary construction work will be begun immediately upon the Interstate Bridge across the Columbia River connecting Portland with Vancouver, Wash. The bridge is estimated to cost, when completed, $1,200,000. Noted Oct. 16, 1913, and Jan. 15, 1914.

✦Merced, Calif.—The Board of Supervisors of Merced County has awarded a contract for the construction of concrete bridges on the State Highway to THOMPSON BROS., Fresno, Calif., at $4454.

✦Woodland, Calif.—A contract for the construction of a bridge over the cut now being made in the Knights Landing Ridge by the drainage district, has been awarded to JENKINS & WELLS, Sacramento, at $14,000.

London, Ont.—(Official)—Bids will be received until Dec. 8, by Charles Talbot, Engr. of Middlesex County, London, and James A. Bell, Engr. of Elgin County, St. Thomas, Ont., for the construction of the Tait Bridge over the River Thames between the two counties.

★Toronto, Ont.—(Official)—Plans and specifications for the Rosedale section of the Bloor St. Viaduct, bids for the construction of which will be received until Dec. 21, are on file at the office of "Engineering News," 10th Ave. and 36th St., New York, N. Y. Noted Nov. 19.

Victoria, B. C.—The City Council has instructed the City Engineer to prepare plans for rebuilding the Rock Bay Bridge. Wellington J. Dowler is City Clk.

The Pacific Great Eastern Ry., R. D. Thomas, Secy. and Treas., 711 Belmont House, Victoria, has filed plans for a bridge to be built over the Lillooch River, at Station 1041.

WATER SUPPLY—IRRIGATION

Dalton, Mass.—The city contemplates constructing a new reservoir. John Hardoman is Supt.

Fall River, Mass.—Water mains will be laid in Chicago St. from Jefferson to Rodman St. Patrick Killan is Supt. Water Dept.

★Buffalo, N. Y.—(Official)—Bids will be received by the State Hospital Commission, Capitol, Albany, until 3 p.m., Dec. 4 for constructing a water softening plant at the Buffalo State Hospital, Buffalo. Plans are on file with Lewis F. Pilcher, State Arch. For details see advertisement under "Contracts To Be Let."

✦Buffalo, N. Y.—The contract for additional work at the new pumping station has been awarded by the city to BISON CONSTRUCTION CO., at $26,632.

Saratoga Springs, N. Y.—The city contemplates installing a mechanical filtration plant and aërator estimated to cost $90,000. John C. Graul is Comr. Sewers, Water and Streets.

Yonkers, N. Y.—Plans are being prepared by Daniel Fulton, City Engr., for a new water system, including a reservoir, enlarging the present reservoir, a storage reservoir at East View and a pumping station on Saw Mill River Rd. The estimated cost is $4,000,000. Noted Aug. 21, 1913.

Trenton, N. J.—No bids were received Nov. 6, by the city for laying water mains in Mahlon Stacy Park.

Aspers, Penn.—(Official)—Plans have been prepared for making extensions to the water system.

Bellwood, Penn.—The citizens have voted in favor of issuing bonds, the proceeds of which will be used for installation of water and sewer systems.

Juniata, Penn.—Bonds for $24,000 have been voted by the citizens, the proceeds will be used to construct a new water main from the reservoir to the city. Noted Nov. 19.

Lansdowne, Penn.—(Official) — The State Department of Health has approved plans for the installation of a water system.

Mahanoy City, Penn.—According to press reports, the Mahanoy City Water Co. will lay a 6800-ft., 20-in. wooden pipe line and construct a reservoir. Noted July 9.

✦★Pittsburgh, Penn.—The contract for laying two 16-in. steel pipe lines across the Bloomfield bridge and 16- and 20-in. c.-i. pipes from the Herron Hill reservoir to the Garfield tanks has been awarded to PITT CONSTRUCTION CO., Pittsburgh, at $16,149. Bids opened Oct. 15. Noted Oct. 1.

✦Pittsburgh, Penn.—The contract for chimneys, economizers, flues and appurtenances for the Brilliant Pumping Station has been awarded to JAMES McNEIL & BROS. CO., 29th St., Pittsburgh, at $27,650. Bids opened Sept. 4. Noted Sept. 3.

Sheridan, Penn.—(Official)—Plans have been approved by the State Department of Health for making extensions to the water system.

Sykesville, Penn.—At a recent election, the citizens voted in favor of installing a municipal water system. Noted Sep.

Stuart, Va.—Bids will be received, until Nov. 30, by Thompson, for constructing a water and sewer system. Ambler, Winston-Salem, N. C., is Engr.

Selma, N. C.—The city, according to press reports, will install water meters. K. L. Shipwash is Supt.

Columbia, S. C.—The city contemplates making the following improvements at the municipal water system: Six 1,000,000-gal. filters, one 3,000,000-gal. steam pump, one 5,000,000-gal. water-power pump and 20 miles of water mains. F. Wyse is Supt.

Manning, S. C.—Bids will be received until Dec. 1, by the City Clerk, for the purchase of $30,000 in bonds, the proceeds of which will be used for the construction of a water system.

Largo, Fla.—The citizens contemplate issuing bonds, the proceeds of which will be used for the installation of a water system.

Live Oak, Fla.—The citizens contemplate installing new equipment at the water-works and constructing a reservoir. L. T. Morgan is City Engr.

New Smyrna, Fla.—An election will be held Jan. 12, to vote on the question of issuing $47,000 in bonds, the proceeds of which to be used for the installation of a water system. J. B. McCrary Co., Atlanta, Ga., is the Engr. Noted Oct. 8.

Montgomery, Ala.—The city contemplates constructing a 3,000,000-gal. reservoir. W. T. Perry is Supt. of Const.

Alexandria, La.—Bids will be received until Dec. 7 for two two-stage fire pumps, a single stage service pump, a vertical submerged-type pump for condenser, a surface condenser and a vertical sewage pump. Sol Weil is City Clk.

Plaquemine, La.—Bids will be received until Dec. 1, for the sale of $42,000 in bonds, the proceeds of which will be used for the construction of a water system. L. B. Le Blanc is City Clk. Noted Oct. 1.

Jackson, Ky.—The construction of a water system is contemplated by the city. The estimated cost is $25,000.

Lawrenceburg, Ky.—At an election held Nov. 3, the citizens voted in favor of issuing bonds, the proceeds of which will be used for the improvement of the water system. Noted July 9.

Princeton, Ind.—The installation of a purification plant at the water-works of the Princeton Water & Lighting Co. is contemplated. H. E. Taylor is Supt.

Benton Harbor, Mich.—At a a recent election the citizens voted against the question of issuing bonds for $60,000, the proceeds of which would have been used for the improvement of the municipal water system.

Detroit, Mich.—Burt E. Taylor and others have incorporated the Schoolcraft Water Co. with a capital of $40,000.

Greenville, Mich.—The Board of Public Works contemplates installing a 2,000,000-gal. pump at the water-works. T. J. Potter is Chn.

Benld, Ill.—The citizens, at a recent election, voted to issue bonds, the proceeds of which will be used for the installation of a water system.

Herrin, Ill.—The city contemplates installing a filtration plant at the water-works in 1915.

Neoga, Ill.—Bids will be received until Dec. 4, by the Board of Village Trustees, for constructing a water system. Claude L. James, Mattoon, is Engr.

Stranghurst, Ill.—Bids will be received until Dec. 4, by A. H. Kershaw, Secy., Bd. Local Impvt., for the purchase of $12,000 in bonds, the proceeds of which will be used for the construction of a water system. W. S. Shields, Chicago, is Engr. Noted Oct. 29.

Wilmington, Ill.—Bids will be received until Nov. 27, by the City Council, for constructing a 60,000-gal. tank on a 125-ft. elevation. T. Monsen is City Clk.

Des Moines, Iowa—Bonds for $2,450,000 have been voted by the citizens, the proceeds of which will be used for the purchase and improvement of the water system. Noted Oct. 22.

Eldon, Iowa—The Council contemplates making extensions to the municipal water system. C. A. Flint is Supt.

Iowa Falls, Iowa—Bids will be received until Dec. 8, by E. L. Marriage, City Mgr., for making extensions to the water and sewer systems. J. H. Farrington is City Engr. Noted Nov. 5.

Mason City, Iowa—The city plans to lay three miles of water mains. W. A. Judd is Supt.

Waysata, Minn.—On Nov. 3, the citizens voted in favor of issuing bonds for $30,000, the proceeds to be used for the construction of a water system. B. Bickford is City Clk.

Fredonia, Kan.—The town contemplates installing a rapid sand filtration plant, new force pumps and moving the pumping station. C. B. De Far is Supt.

Clydepark, Mont.—C. H. Green Co., Spokane, Wash., was low bidder for a water system. Bonds for $18,000 have been voted for the construction. Noted Oct. 22.

✦Forsyth, Mont.—The contract for constructing a concrete settling basin in connection with the water system has been awarded to L. W. WAHL, Forsyth, at $9309. Noted Aug. 20.

Cape Girardeau, Mo.—The Missouri Public Utilities Co. contemplates constructing a settling basin and installing a 2,000,000-gal. pump. H. W. Beck is Secy.

Glenwood, Ark.—Plans are being prepared by the United Engineering & Construction Co., Muskogee, Okla., for the construction of a water system. Noted Aug. 20.

Pilot Point, Tex.—A water system will be installed by the city in the spring. The estimated cost is $14,000. J. G. Shelton is Secy.

San Benito, Tex.—An offer of $300,000 has been made by the land owners of the district watered by the San Benito Land & Irrigation Co. for the latter's irrigation system. If the pending transaction is consummated the irrigation system will be extended.

✚Morris, Okla.—The contract for constructing a water system has been awarded by the Board of Trustees to N. S. SHERMAN MACHINE & IRON WORKS. Oklahoma City, Okla., at $37,500. Other bids were J. R. Sutherlin Construction Co., Kansas City, Mo., $37,777; F. W. Keeney & Co., Oklahoma City, $37,800; J. E. Davis, Caddo, $38,935; Connelly Construction Co., El Reno, $39,496; J. J. Rooney, Muskogee, $39,698 and the United Engineering & Construction Co., Muskogee, $40,435. The Benham Engineering Co., Oklahoma City, is the Engr. Bids opened Nov. 16. Noted Nov. 5.

Phœnix, Ariz.—The city plans to install pumping machinery of from 3,000,000 to 5,000,000 gal. capacity. V. A. Thompson is Supt.

Tacoma, Wash.—The City Council has passed ordinances providing for the construction of a 12-in. c.-i. pipe, with hydrants and appurtenances. The estimated cost is $10,000. W. D. Nickeus is City Clk.

Oregon City, Ore.—The date for receiving bids for constructing the subdivisions of the South Fork has been extended from Nov. 21 to Nov. 28, by the South Fork Water Commission. Noted Nov. 12.

Portland, Ore.—Bids will be received until Nov. 27, by A. L. Barbour, City Audr., for the purchase of $135,000 in bonds, all or in part, the proceeds of which will be used for the improvement of the water system.

Corning, Calif.—An election will soon be held to vote on the question of issuing bonds for $30,000, the proceeds of which are to be used for making extensions to the water and sewer systems.

San Diego, Calif.—Bids were received Nov. 9, for installing a filtration plant as follows: W. A. Pope & C. Widdikamp, Chicago, Ill., $59,750; California Jewell Filter Co., $52,954; and C. F. Braum & Co., $67,680 and $59,650. Noted Nov. 5.

Sierra Madre, Calif.—William Mulholland, Consult. Engr., Los Angeles, has been retained by the city to investigate the establishment of an intake for the municipal water system.

Oakville, Ont.—The Town Council plans to extend the water mains into Pine District suburb. William E. Crawley is Clk.

Empress, Alta.—The Town Council has authorized the coning of 3000 ft. of 6-in. c.-i. water mains with specials. W. J. Moore is Mgr.

Empress, Alta.—The Town Council has authorized the construction of a water system, estimated to cost $60,000. E. L. Miles, 233 Judge Travis Bldg., Calgary, Alta., is Mgr.

Victoria, B. C.—The City Council has appointed Du Cane & Dutcher, Rogers Bldg., Vancouver to prepare plans for the Sooke Lake water project.

SEWERS

Warren, Mass.—Plans are being prepared for the installation of a sewer system in the spring.

Jamestown, N. Y.—The citizens contemplate issuing $25,000 in bonds, the proceeds of which will be used for the construction of sewers. Christ Neilsen is Chn. of the Sewer Com.

Syracuse, N. Y.—Plans have been prepared by W. T. Wooley, City Engr., for the construction of sanitary and storm water sewers in the Huntley Tract and in the Fourth Ward.

✚Camden, N. J.—Contracts for constructing sewers have been awarded to AARON WARD, at $1.39 per lin.ft., and to W. PENN CORSON, at $5.27 per lin.ft. Bids opened Nov. 12. Noted Nov. 12.

Trenton, N. J.—Bids will be received by the City Commission, until 2:30 p.m., Dec. 2, for constructing a sewer in Lawton Alley, No. 607. Frank Thompson is City Clk.

Bellwood, Penn.—At a recent election, the citizens voted in favor of issuing bonds, the proceeds to be used for the construction of sewer and water systems.

Coraopolis, Penn.—(Official)—The State Department of Health has approved plans for the construction of lateral sewers.

Hyndman, Penn.—(Official)—Lateral sewers will be constructed in Hyndman, the plans for which have been approved by the State Department of Health.

Langeloth, Penn.—(Official)—A sewer system and sewage treatment plant will be installed. Plans have been approved by the State Department of Health.

Lansdowne, Penn.—(Official)—The city will construct a sewage-treatment plant and lateral sewers. Plans for this work have been approved by the State Department of Health.

Lebanon, Penn.—The city contemplates constructing a second sewage disposal plant. T. R. Crowell is City Engr.

Modena, Penn.—(Official)—The State Department of Health has approved plans for the construction of a sewer system and sewage-treatment plant.

Monongahela, Penn.—(Official)—Plans have been prepared and approved by the State Department of Health for the construction of lateral sewers.

Renovo, Penn.—(Official)—A temporary sewage-treatment plant will be constructed at South Renovo. Plans have been approved by the State Department of Health.

✚Rockville, Md.—The contract for constructing a sewer system and sewage-disposal plant has been awarded to WARREN F. BRENZIER CO., Washington, D. C., at $21,820. Noted Oct. 22.

✚Norfolk, Va.—The contract for laying sewer pipe has been awarded to F. G. McGUIRE, Norfolk, at $11,000. Noted Sept. 17.

Stuart, Va.—See item under Water Supply and Irrigation.

Manning, S. C.—Bids will be received until Dec. 1, by the Town Clerk, for the purchase of $10,000 in bonds, the proceeds of which will be used for the installation of a sewer system. Noted Sept. 3.

✚Augusta, Ga.—The contract for constructing a sewer in Camille St., has been awarded to T. O. BROWN & SON, Augusta, at $13,238.

West Palm Beach, Fla.—Bids will be received until Dec. 12, by the City Clerk, for the purchase of $100,000 in bonds, the proceeds of which will be used for the improvement of the sewer system, street improvement and riparian improvement.

Letonia, Ohio—Plans have been submitted to the City Council by C. O. Bossert, Salem, Ohio, Engr., for the proposed sanitary sewer system.

Marion, Ohio—The City Council contemplates constructing an enlarged sewage disposal plant and a trunk line sewer west from Center and Davids St.

Fort Wayne, Ind.—(Official)—Bids will be received by the Board of Public Works, until 7:30 p.m., Dec. 3, for constructing a main sewer. H. W. Becker is Clk. of the Bd.

Waterloo, Ind.—(Official)—Bids will be received until 7 p.m., Dec. 3, for constructing a combined storm and sanitary sewer and sewage disposal plant. W. R. Newcomer is Town Clk. Lige Heating & Ventilating Co., Auburn, is Engr.-in-Charge.

Staunton, Ill.—The City Council voted in favor of issuing $70,000 in bonds for the construction of a sewer system. Work will be done in the spring.

Appleton, Wis.—Plans are being prepared by Thomas W. Orbison, Consult. Engr., for the proposed trunk sewer.

✚Madison, Wis.—(Official)—The contract for constructing a storm sewer in Bassett St. has been awarded to J. W. MITCHELL, Madison, Wis., at $17,480. Noted Nov. 5.

Keota, Iowa—(Official)—Bids will be received by Town Council, until Dec. 9, for constructing five miles of sanitary sewers and a sewage disposal plant. W. F. Stoutner is Town Clk.

Brainerd, Minn.—Bids will be received by V. N. Roderick, City Clk., until 8 p.m., Dec. 7, for constructing a lateral sewer in District No. 3.

✚Tracy, Minn.—A contract for constructing 6000 ft. of sewer has been awarded to H. J. CATHROE, Omaha, Neb., at $5780.

San Antonio, Tex.—Plans are being prepared by Samuel M. Gray, Providence, R. I., expert Sewer Engr., for a complete system of sanitary and storm sewers.

Lawton, Okla.—Bids have been received for constructing a sewer along Gore Blvd., as follows: Mayfield & Shaw, Fort Bliss, Tex., $27,308; F. W. Cooney & Co., $64,453; E. R. Kirby, Lawton, $29,858; Charles H. Shaw, $31,931. Noted Oct. 15.

Tucson, Ariz.—An election will be held, Dec. 14, to vote on the question of issuing $50,000 in bonds for constructing outfall sewers.

Portland, Ore—The City Council is considering the recommendations of the City Engineering Department that the Tanner Creek trunk sewer be rebuilt at once. The work will cost between $175,000 and $240,000.

East San Diego, Calif.—(Official)—The Board of Trustees has authorized H. A. Kuehmsted, City Engr., to prepare plans for the construction of 30 miles of sanitary sewers.

Etna Mills, Calif.—Bids will be received by the City Trustees, until Nov. 28, for constructing a sewer system and disposal works. M. F. Smith is City Clk. Noted Nov. 12.

✚Los Angeles, Calif.—The contract for constructing a sewer in Fifth St., from Van Ness Ave. to Westminster Ave., has been awarded to ANDREW JAYICH.

Visalia, Calif.—An election will soon be held to vote on the question of issuing $120,000 in bonds for a municipal sewer system.

Ottawa, Ont.—The construction of the $60,000 sewerage system, including the laying of tile and brick sewers, will be done by day labor. R. L. Haycock, Sewerage Engr., will supervise the work.

✚Toronto, Ont.—The contract for constructing main sewer No. 5 has been awarded to FUSSEL-McREYNOLDS CO., at $41,644.

✚Contracts for sewer pipe in connection with the North Toronto sewerage system have been awarded by the Board of Control to the NATIONAL IRON WORKS, Toronto, 24-in. pipe, $5280, 36-in. pipe, $9445; CANADIAN ALLIS CHALMERS, LTD., Toronto, 30-in. pipe, $7280, 30-in. B. pipe, $9595.

GARBAGE

✚Utica, N. Y.—The city has awarded the contract for the disposal of garbage from the period, Nov. 23, 1914, to Dec. 31, 1918, to H. STAPPENBECKS & SONS, Utica, at $16,821.

✚Jersey City, N. J.—(Official)—The city has awarded the contract for the removal of ashes and garbage for a period of one year, to MONTGOMERY & CONLIN, at $81,000. Noted Oct. 15. List of bidders Nov. 12.

✚Philadelphia, Penn.—The Director of the Department of Public Works has awarded the contract for garbage removal and disposal for the year 1915, to the PENN REDUCTION CO., at $323,583. Following are reported to be lowest bids opened Nov. 6 by Director Department of Public Works for (a) cleaning of streets, roads, alleys, inlets and markets for the year 1915 and all work incidental thereto; (b) collection and disposal of ashes and rubbish for the year 1915 and all work incidental thereto: Dist. 1A, Jas. A. Mullen, (a) $94,700, (b) $43,770; Dist. 1B, Jas. Irwin, (a) $104,038; Dist. 1B, Peoples Bros., (b) $48,900; Dist. 2, Edwin H. Vare, (a) $290,000, (b) $70,000; Dist. 3, Edwin H. Vare, (a) $290,000, (b) $82,000; Dist. 4A, Jas. D. Dorney, (a) $131,000, (b) $66,000; Dist. 4B, Thos. E. Flanagan, (a) $103,309, (b) $83,391; Dist. 5, Jas. D. Dorney, (a) $162,000; Dist. 5, Frank Curran, (b) $64,720; Dist. 6, Estate of David McMahon, (a) $146,900, (b) $84,900. Noted Oct. 29.

Dayton, Ohio—An ordinance authorizing $45,000 in bonds for the erection of a garbage disposal plant was introduced at a recent meeting of the City Commission. The same body recently authorized a bond issue of $10,000 for the construction of five buildings to house the incinerating equipment. Noted Oct. 22.

Norwood, Ohio—Harry J. Pierson, Dir. Pub. Serv., will soon receive bids for the installation of a garbage incinerator. The estimated cost is $30,000.

Detroit, Mich.—Of the $5,000,000 bond issue for municipal improvements, the city will spend $383,885 for a garbage reduction plant. Noted Aug. 27.

Ishpeming, Mich.—The Common Council is again considering the installation of a garbage incinerator. A committee has been appointed to investigate the matter thoroughly.

Pontiac, Mich.—A bond issue of $7500 was carried at the recent election for the installation of a garbage incinerator on Mt. Clemens St.

Des Moines, Iowa—The City Council has designated a committee to make an investigation of conditions with the view of installing a municipal incinerator for garbage disposal.

✚**Corpus Christi, Tex.**—The city has awarded the contract for the construction of a garbage incinerator to the SAN ANTONIO MACHINE & SUPPLY CO., at $14,500. Noted Oct. 15.

Billings, Mont.—According to press reports the question of establishing an incinerating plant is under consideration. Estimated cost, $20,000.

Ottawa, Ont.—A by-law wil be submitted to the City Council in January proposing the construction of an incinerator to serve the West end of the city. The estimated cost is $50,000.

Toronto, Ont.—The Works Committee has approved plans for the construction of an incinerator on Toronto Island. The estimated cost is $15,000.

STREETS AND ROADS

✚**Boston, Mass.**—The contract for the construction of 6600 lin.ft. of state road at Dudley was awarded by the Highway Commission to the FRAMINGHAM CONSTRUCTION CO., at $7103. Other bids were: W. D. Smith, Wrentham, $7103; A. Vito Construction Co., Thompson, Conn., $7428; Menequalle & Biacco, Stockbridge, $7445; D. Romano & Son, Medford, $7909, McGovern & Langioni, Southbridge, $8108; T. Ross & Son, Worcester, $8175; Horne-Lowe Contracting Co., Millbury, $8180; New England Contracting Co., Worcester, $8373; Flynt Construction Co., Monson, $8421; J. H. Downey, Dudley, $8437; Way & Cellilli, Springfield, $8650; Marcullo Construction Co., Portsmouth, N. H., $8713; Andrew M. Cusack, Boston, $11,030. Arthur W. Dean, 15 Ashburton Pl., is Chief Engr. Noted Nov. 12.

Bids will be received until Nov. 27, for the construction of Harold W. Roxbury, and Spring St., West Roxbury District. L. K. Rourke is Comr. Pub. Wks.

The contract for hassam block pavement in Dempster St., Roxbury District, has been awarded by the Public Works Department to SIMPSON BROS. CORPORATION at $9827. Other bids were: Rowe Contracting Co., $10,443; C. J. Jacobs Co., $10,486; J. C. Coleman & Sons Co., $11,294; C. B. Telless, $11,449. L. K. Rourke is Comr. Noted Nov. 12.

✚**Ansonia, Conn.**—A contract for paving on Liberty and State St. has been awarded to O'NEIL & BEARD, Shelton, Conn., at $5897.

★**Albany, N. Y.**—(Official)—Bids will be received by John N. Carlisle, State Highway Comr., 55 Lancaster St., until 1 p.m., Dec. 10, for improving highways in various counties. For particulars, see advertisement under "Contracts to Be Let."

New York, N. Y.—Boroughs of Manhattan and Richmond)—Bids will be received by the Park Board, Department of Parks, Municipal Bldg., until 3 p.m., Dec. 3, for paving and improving various streets and roads in the boroughs.

New York, N. Y.—(Borough of Manhattan)—(Official)—Bids will be received by Marcus M. Marks, Pres. of the Borough, Municipal Bldg., until 2 p.m., Nov. 30, for regulating, grading and paving various streets.

New York, N. Y.—(Borough of Bronx)—(Official)—Bids will be received by Douglas Mathewson, Pres. of the Borough, until noon, Nov. 30, for completing the contract abandoned by Murphy, Rivinac & Co., for various road improvements; also for paving, regulating, etc., other streets in the Borough.

New York, N. Y.—(Borough of Brooklyn)—(Official)—Bids will be received by L. H. Pounds, Pres. of the Borough, until 11 a.m., Dec. 2, for regulating, grading and paving various streets in the borough.

✚**Bayonne, N. J.**—The City Council, Nov. 17, awarded the contract to DANIEL DONOVAN, 586 Ave. A, Bayonne, for paving Ave. A, at $54,588.

Camden, N. J.—Low bids have been received by the Board of Freeholders for the construction of a new roadway along Main St., Haddonfield, from Kelley & McFeeley, at $45,833; and for the improvement of King's Highway, outside of Haddonfield, from E. C. Humphrey, at $68,689. Noted Oct. 29.

✚**Hammonton, N. J.**—(Official)—Bids will be received by the Board of Chosen Freeholders of Atlantic County, Memorial Hall, Atlantic City, N. J., until noon, Dec. 9, for improving the Wheat Rd. from the Cumberland County line to the intersection of Bellevue Ave. and White Horse Pike, Hammonton. A. N. Nelson, 636 Bartlett Bldg., Atlantic City, N. J., County Engr., is in charge. For particulars see advertisement under "Contracts to Be Let."

✚**Irvington, N. J.**—The Board of Commissioners has awarded contracts for the paving of Howard St., from Clinton Ave. to Cottage St., and Ellis Ave., from Springfield Ave. to Twentieth St., to the NEWARK PAVING CO. and JOHN DORER, respectively.

Jersey City, N. J.—The Board of Chosen Freeholders of Hudson County has ordered the improvement of the Newark Turnpike, from Schuyler Ave., Harrison, to the Belleville Turnpike, with bituminous paving. T. Wasser, County Engr., is in charge.

Nutley, N. J.—The Board of Freeholders plans for the improvement and resurfacing of Washington Ave.

Orange, N. J.—The City Commission is negotiating with the Public Service Ry. Co. for the improvement of Day St., between Main and William St., with granite block pavement.

★**Somers Point, N. J.**—(Official)—Bids will be received by the Board of Chosen Freeholders, of Atlantic County, Memorial Hall, Atlantic City, N. J., until noon, Dec. 9, for improving the Somers Point-Longport Blvd. A. H. Nelson, County Engr., is in Charge. For particulars, see advertisement under "Contracts To Be Let."

✚**Trenton, N. J.**—The contract for surfacing Greenwood Ave. has been awarded to the NEWTON PAVING CO.

Charleroi, Penn.—At a recent election, the citizens voted in favor of issuing $75,000 in bonds for municipal improvements including paving of various streets.

✚**Pittsburgh, Penn.**—A contract for constructing the Tuberculosis Hospital Rd. has been awarded to the MONO CONSTRUCTION CO. at $19,196.

✚The contract for repaving Fourth Ave. with creosoted wood blocks has been awarded to M. O.'HERRON CO. at $5888.

(Official)—Bids will be received by the City Controller until 10 a.m., Nov. 30, for improving Sassafras St. from Liberty Ave. to 38th St.

✚**Uniontown, Penn.**—(Official)—Contracts have been awarded for constructing roads in Luzerne and Washington Townships to REAGAN & LYNCH, Uniontown, at $24,000, and V. De GIORNO, Fayette City, at $6000 respectively. Noted Oct. 29.

✚**Sarasota, Fla.**—A contract for paving has been awarded to the SOUTHERN ASPHALT & CONSTRUCTION CO., Birmingham, Ala., at $12,000.

Gulfport, Miss.—At the meeting of the County Board of Supervisors, Dec. 7, the project to build a boulevard, along the Mississippi Sound, as a link in the New Orleans-Mobile roadway will be considered.

Holly Springs, Miss.—An election will be held Dec. 8, to vote on the question of issuing $15,000 in bonds to pave or macadamize streets and the public square.

Louisville, Ky.—The contract for constructing approximately eight blocks of Market St. will soon be awarded by the Board of Public Works.

Mt. Vernon, Ky.—The Rockcastle Fiscal Court has appropriated funds for the construction of ten miles of road which will be a part of the Boone Way, a proposed highway from Crab Orchard, Ky., to Cumberland Gap, Tenn.

Cheviot (Cincinnati post office), **Ohio**—(Official)—Bids will be received by Albert L. Reusing, Village Clk., until noon, Dec. 2 for the improvement of a section of Harding Ave.

Kenton, Ohio—Bids will be received by the Auditor of Hardin County until Nov. 30, for the sale of $25,000 in bonds for road improvements.

Newark, Ohio—Bids will be received by the Commissioners of Licking County until, Dec. 5, for the sale of $22,500, $27,000 and $15,000 in bonds for road improvements throughout the county. F. I. Mercer is Clk. of Comrs.

✚**Wapakoneta, Ohio**—(Official)—The contract for paving Perry and Main St. has been awarded to H. P. STREICHER CO., Toledo, at $24,245. Noted Oct. 22 and Nov. 19.

✚**Warren, Ohio**—The contract for paving W. South St. has been awarded to TURNER & OLSON, Youngstown, at $8423.

✚**Brownstown, Ind.**—A contract for constructing a gravel road has been awarded to MEREDITH & HARLWAY, Columbus, Ind., at $10,865.

Fort Wayne, Ind.—(Official)—Bids will be received by the Commissioners of Allen County until 10 a.m., Dec. 16, for the construction of a stone road on line between Lake and Aboit Townships. Calvin N. Brown is Audr.

Indianapolis, Ind.—(Official)—Bids will be received by the Commissioners of Marion County until 10 a.m., Dec. 14, for constructing a road in Lawrence Township.

Rochester, Ind.—(Official)—Bids will be received by L. E. Downey, Treas., Fulton County, until 3 p.m., Dec. 7, for the sale of $81,379 in bonds for highway improvements.

Vincennes, Ind.—(Official)—All bids received by H. J. Watts, Oct. 26, for 29,000 sq.yd. of paving with asphalt, wood block or concrete have been rejected. New bids will be received until Dec. 7. Noted Oct. 22.

Port Huron, Mich.—(Official)—Bids will be received by the County Road Commissioners until Dec. 15, for extending the Port Huron and Yale State Trunk line, 1.5 miles. Albert P. Ryan is Clk. of the Comrs.

St. Joseph, Mich.—Bids will be received by County Clerk until Dec. 9, for macadamizing 32 miles of roads. The estimated cost is $210,000.

Wyandotte, Mich.—At the general election the question of issuing $85,000 in bonds for street improvements was defeated.

✚**Appleton, Wis.**—A contract for graveling 15,000 cu.ft. has been awarded to F. BARTZ at $1.05 per cu.yd.

Madison, Wis.—The State Highway Commission has appropriated funds for highway improvements during 1915 as state aid in the following counties: Jefferson, $20,531; Rock, $35,256; Walworth, $21,875; Forest, $15,250; Marathon, $11,075; Rusk, $11,691; Iron, $13,806; Marinette, $17,446. George R. Hirst is Comr.

Hutchinson, Kan.—No bids were received, Nov. 6, by the City Commission for resurfacing Sherman St. W. with asphalt. Noted Oct. 29.

Deer Lodge, Mont.—The citizens of Powell County voted in favor of issuing $50,000 in bonds for road work.

Townsend, Mont.—The citizens of Broadwater County have voted in favor of issuing $22,000 in bonds for road work.

✚**St. Louis, Mo.**—The contract for improving Miami St. from Broadway to Oregon Ave. has been awarded to JOHN McMAHON at $24,741. Noted Nov. 5.

✚**Little Rock, Ark.**—A contract for macadamizing approximately six miles of 12th St. has been awarded to McCARTY & PEAVY at about $40,000.

Lavernia, Tex.—An election will be held, Dec. 15, to vote on the question of issuing $48,000 in bonds for constructing roads in Lavernia and Sutherland Springs Districts.

+Pocatello, Idaho—A contract for 45,329 sq.yd. gravel surfacing, 26,416 cu.yd. excavation and 88,000 lin.ft. curbing has been awarded to J. J. CARROLL, Boise, at $34,530.

Cathlamet, Wash.—The citizens of Wahkiakum County recently voted $75,000 in bonds for building a main trunk road to complete the road from Kelso westward down Columbia River through Wahkiakum and Pacific Counties. Plans are being prepared and bids will soon be received.

Seattle, Wash.—The following bids were recently received by the Board of Public Works for paving East Mercer St. with (a) No. 1 brick, (b) No. 2 brick: L. Coluccio, 1624 Lane St. (a) $33,281 (b) $34,321; Elliott Construction Co., (a) $35,267, (b) $36,267; P. J. McHugh, (a) $35,460, (b) $35,860; D. H. Trapbagen, (a) $36,674, (b) $38,274.

+Eugene, Ore.—The contract for paving Sixth Ave. with gravel bitulithic has been awarded to CLARK & HENRY, Portland at $28,235.

Sacramento, Calif.—(Official)—Bids were received, Nov. 9, by the State Highway Commissioners for constructing roads in the following counties: (a) Imperial County, (b) Solano County, (c) Glenn County, (d) Colusa County; W. F. Callahan & P. L. Hedrick, El Centro, (a) $63,233; Rice & Dutcher, Imperial, (a) $72,174; Brashear, Burns Co., Los Angeles, (a) $79,035; J. W. Calback, San Diego, (a) $76,779; F. Leffler, San Francisco, (b) $47,256, (c) $47,530; Tieslau Bros., San Francisco, (b) $48,363, (c) $50,640, (d) $66,408; Commary, Peterson Co., Inc., San Francisco, (b) $49,473, (d) $66,582; P. L. Burr, San Francisco, (b) $42,832, (c) $46,311, (d) $60,358, P. H. Hoare, Oakland (b) $40,357, (c) $50,462 Bates, Boreland & Ayer, Oakland, (b) $45,717, (c) $52,294, (d) $58,884; A. W. Garrill, San Francisco, (b) $47,431, (c) $49,216, (d) $61,754; C. W. Cross, Oakland, (c) $40,814; (d) $55,062, Chico Construction Co., Chico, (c) $41,276; Rochett Kearney & Co., Los Angeles, (c) $40,917, (d) $55,438; E. T. Johnson, Portland, Ore., (c) $43,412, (d) $57,091. Noted Oct. 29.

+San Francisco, Calif.—The Westgate Park Co. has awarded a contract for the paving of Junipero Serra Blvd., between Monterey and St. Francis Blvds. to the CITY STREET IMPROVEMENT CO

Santa Ana, Calif.—All bids received by W. B. Williams, County Clk., for grading and surfacing Siever's Cañon County Rd. have been rejected. Noted Oct. 21.

+Bridgeburg, Ont.—The contract for completing a section of the Canadian-Niagara Blvd. has been awarded to J. M. McNAMARA, St. Catharines, at $32,000.

Hillsburgh, Ont.—An election will be held, Dec. 15, to vote on the question of issuing $20,000 in bonds for road work.

INDUSTRIAL WORKS

+Providence, R. I.—(Official)—The general contract for the construction of the warehouse for the R. L. Green Paper Co. has been awarded to the TURNER CONSTRUCTION CO. It will be five stories and basement.

+Bridgeport, Conn.—The contract for the addition to the plant of the Connecticut Breweries Co. has been awarded to HAUG & ROEHRICH.

Jamestown, N. Y.—Freeburg & Fidler, Archs., 505 Chadakoin Bldg., are preparing plans for the three-story addition to the plant of the Crescent Tool Co. The estimated cost is $50,000.

Lyons, N. Y.—The Joppa Cigar Mfg. Co., Warren Bldg., will erect a two-story factory on Geneva St

+New York, N. Y.—(Borough of Manhattan)—Plans have been filed by C. P. H. Gilbert for a 10-story addition to the warehouse at 11 Beach St. for Deering, Milliken & Co., 30 Varick St. The foundation contract has been awarded to CHARLES T. WILLS, INC.

(Borough of Bronx)—L. C. Holden, Arch., is preparing plans for a nine-story warehouse at 1922 Webster Ave., for the Dochterman Realty Co. The estimated cost is $125,000.

Morristown, N. J.—Walter B. Pierson, Arch., 72 Trinity Place, New York, is preparing plans for rebuilding the factory of V. R. Wulff, 33 South St. The estimated cost is $50,000.

Newark, N. J.—J. W. Beardsley's Sons, 474 Greenwich St., New York, contemplates erecting an addition to the four-story plant on Brighton Ave. The estimated cost is $20,000.

Harrisburg, Penn.—Plans are being prepared by Day & Zimmerman, Archs., Philadelphia, for the buildings to the constructed for the W. O. Hickok Mfg. Co. The estimated cost is $150,000.

New Kensington, Penn.—The Pittsburg Dry Goods Co. will construct a two-story brick factory on Stanton Ave. The estimated cost is $15,000. W. L. Laughlin, New Kensington, is Arch.

Scranton, Penn.—The Directors of the Scranton Industrial Development Co. will erect a plant on Green Ridge St. for the Motorkart Co., of Peekskill, N. Y. The estimated cost is $60,000.

Baltimore, Md.—The Western Maryland Ry. Co. is planning the erection of an elevator at Port Covington. The estimated cost is $650,000.

+Chattanooga, Tenn.—The contract for the construction of the plant for the Chattanooga Coal & Biproduct Co., has been awarded to the WESTERN GAS CONSTRUCTION CO.

Canton, Ohio—The Little Grip Co., recently incorporated with a capital of $35,000, plans the construction of a plant at Canton. M. A. Little, W. E. Sherlock and Charles S. MacDowell are interested.

Saint Maries, Idaho—The Saint Maries Lumber Co. plans the construction of a box factory, to cost $60,000. M. P. Bogie is Pres.

+Sheboygan, Wis.—Contracts have been awarded by the Sheboygan Cigar Co. for the construction of a factory as follows: Concrete, PETER SINNER; masonry, WILLIAM GUENTEHR & SON; carpentry, ALBERT NACH & CO. Noted Aug. 27 and Oct. 29.

Armstead, Mont.—H. P. Protenger contemplates constructing a flour mill and grain elevator with a capacity of 150 bbl. a day.

Eureka, Mont.—Dion & Horstkette, Archs., Minneapolis, Minn., are preparing plans for rebuilding a sawmill recently destroyed by fire, for the Eureka Lumber Co. The estimated cost is $150,000. C. A. Weil is Pres.

Great Falls, Mont.—The Hazlewood Co., Ltd., Spokane, Wash., plans the construction, about Jan. 1, of the first unit of a series of plants to be constructed in Montana. F. N. Martin is Secy. and Treas.

Fort Worth, Tex.—The Southwestern Cooperage Co., recently incorporated, plans the construction of a one-story, 60x150-ft. corrugated iron factory.

The Texas Anchor Fence, Iron & Wire Works plans the construction of a one-story, 100x120-ft. building, estimated to cost $15,000.

Anacortes, Wash.—The Fidalgo Island Packing Co. contemplates an expenditure of $45,000 for improving and constructing additions to the canning plant.

Clarkston, Wash.—Bids will soon be received by the American Asbestos Mfg. & Milling Co., recently incorporated, for the construction of a plant at Clarkston.

Conway, Wash.—The Government Standard Powders Co., of Washington, recently incorporated, plans the construction of a plant to manufacture the Government Standard Grade Powders.

Everett, Wash.—Frank Estes contemplates reconstructing the shingle mill recently destroyed by fire.

North Yakima, Wash.—The North Yakima Brewing & Malting Co. contemplates improving and altering its plant. Estimated cost, $45,000.

The Union Oil Co., of California, contemplates constructing a plant to cost about $15,000. C. M. Covell, Seattle, is interested.

Pendleton, Ore.—The Empire Mfg. Co. contemplates the construction of a plant to cost about $50,000.

+Los Angeles, Calif.—The contract for the construction of a Class C, 100x272-ft. warehouse, at Alameda and Palmetto St., for Rudgear-Merle Co., has been awarded to F. O. ENGSTRUM CO. Estimated cost, $65,000. William Curlett & Son are Archs.

Oakland, Calif.—The Bekins Van & Storage Co. plans the construction of an eight-story fireproof warehouse at 22d St. and San Pablo Ave. Estimated cost, $150,000.

Port Elgin, Ont.—Simon Buschlen contemplates constructing a basket-making factory at Port Elgin.

Sarnia, Ont.—R. W. Soper, Arch., has prepared plans for the construction of a factory for the Sarnia Sheet Metal Products Co. Estimated cost, $40,000.

Stratford, Ont.—Plans are being prepared for the Colonial Player Piano Co. for the construction of a factory at South Stratford.

FEDERAL GOVERNMENT WORK

Bridge—Washington, D. C.—Bids were received, as follows, by the Commissioners of the District, for the construction of reinforced-concrete bridge, consisting of a single multiple rib arch of 200 ft. actual span, the abutments of which will be founded in solid rock, over Rock Creek, within the lines of Pennsylvania Ave. It will have a width of 70 ft. between balustrades, consisting of a 50-ft. roadway and two 10-ft. sidewalks. It will consist of a deck system carried by columns and walls on one 12-ft. arch rib and four 6-ft. arch ribs. In Design A, the bridge will be faced with facing mortar, will have a showing span of 155 ft., and a total overall length of 271 ft. In Design B, the bridge will be faced with stone, will have a showing span of 164 ft. and a total overall length of 276 ft. Bid a provides for construction of bridge according to Design A. Bids b-1, b-2 and b-3 provide for the construction of the bridge according to Design B. Bid b-1 provides for facing stone to be buff Indiana limestone; b-2, facing stone to be sandstone similar to "Kingwood"; b-3, facing stone to be granite. Item 1 calls for excavation of 160 cu.yd. of earth; item 2, excavation of 200 cu.yd. of rock; item 3, 400 cu.yd. of masonry excavation:

Bidders are as follows:

(A) Hardaway Contracting Co., Columbus, Ga.; (B) A. L. Guidone & Co., New York, N. Y.; (C) Barzaghi-Vought Co., New York, N. Y.; (D) L. B. Cleveland, Watertown, N. Y.; (E) McArthur Bros. Co., New York, N. Y.; (F) Conners Bros. Co., New York, N. Y.; (G) Interstate Construction Co., New York, N. Y.; (H) Thomas Sheahan, Hagerstown, Md.; (I) O. P. Allen Construction Co., Washington, D. C.; (J) Snare & Triest, New York, N. Y.; (K) Ward & Tully, Inc., New York, N. Y.; (L) Merrill-Ruckgaber Co., New York, N. Y.; (M) Cranford Construction Co., Washington, D. C.; (N) O'Brien Construction Co., New York, N. Y.; (O) L. Hankins, Richmond, Va.; (P) Whiting-Turner Construction Co., Baltimore, Md.; (Q) C. Faith & Co., Philadelphia, Penn.; (R) Willard Boggs & Co., Spartansburg, S. C.; (S) Penn Bridge Co., Washington, D. C.; (T) Davis Construction Co., Washington, D. C.; (U) W. H. H. Allen Construction Co., Washington, D. C.; (V) M. F. Comer & Co., Washington, D. C.; (W) C. B. Clark & Co., Baltimore, Md.

	Item 1	2	3	Bid a	Bid b-1	Bid b-2	Bid b-3
A	$0.75	$3.00	$3.00	$60,500	$69,500	$70,500	$87,500
B	2.00	3.50	5.00	82,300	91,500	101,500	109,500
C	1.00	5.00	2.00	63,245	73,953	73,953	92,556
D	1.00	4.00	4.00	58,750	74,321	83,084	93,544
E	2.00	5.00	6.00	70,500	85,033	92,200	102,400
F	12.00	25.00	20.00	83,216	90,350	98,671	109,800
G	1.00	4.00	4.00	71,750	85,700	93,650	103,100
H	1.50	6.00	15.00	87,521	108,735	120,537	130,357
I	0.44	5.50	6.60	66,600	.....	.....	.....
J	1.50	4.00	9.00	84,000	95,300	105,000	116,000
K	1.00	4.00	5.00	103,300	118,500	127,000	137,000
L	1.00	10.00	10.00	73,000	83,000	91,000	101,000
M	2.00	2.00	3.00	102,000	114,200	124,400	135,000
N	1.00	5.00	4.00	75,000	85,000	95,000	106,000
O	1.20	5.80	5.80	86,000	99,000	104,000	114,000
P	1.500	4.00	10.00	67,000	79,000	88,400	95,000
Q	0.50	9.00	15.00	75,000	89,000	97,000	106,000
R	0.60	5.00	5.00	92 300	110,000	116,500	125,600
S	1.00	2.50	3.00	53,700	68,300	77,300	88,400
T	0.60	4.00	5.00	65,297	73,671	81,284	90,384
U	2.50	5.00	12.00	77,527	92,185	96,735	100,285
V	1.25	7.00	5.00	73,170	83,000	92,700	103,300
W	1.25	4.00	4.50	57,820	72,840	81,000	92,520

Building—Washington, D. C.—Bids were received as follows, by the Commissioners of the District for excavation, foundations and substructure for High School, No. 174, in square 554, First St., N. W., between N and O St., Washington: James L. Marshall, $68,830; George A. Fuller Co., $62,900; Irwin & Leighton, $64,000; Charles McCaul Co., Philadelphia, Penn., $65,829; Conners Bros. Co., New York, N. Y., $77,750; George E. Wyne, $58,700; Skinker & Garrett, $66,584; P. F. Gormley Co., $55,558; Boyle-Robertson Construction Co., $65,200; Arthur L. Smith & Co., $57,551; Norcross Bros. Co., Lowell, Mass., $71,000; Frank L. Wagner, $67,741; F. Roe Searing, Philadelphia, Penn., $69,945; Andrew Murray, $67,780; Arthur Cowsill, $68,710; Wells Bros. Co., $77,050; R. J. Beall Construction Co., $74,400; Keepsdry Construction Co., New York, N. Y., $77,000; Above bidders of Washington, unless otherwise stated. Noted Nov. 12.

Dump Scows—Wheeling, W. Va.—Bids will be received by Capt. F. B. Wilby, U. S. Engineer Office, until 11 a.m., Dec. 19, for furnishing and delivering two wooden dump scows, designated "U. S. E. D. Kanakha No. 33" and "U. S. E. D. Kanawha No. 34."

★**Breakwater**—Cape Lookout, N. C.—Bids will be received by Maj. H. W. Stickle, U. S. Engineer Office, Wilmington, N. C., until noon, Jan. 5, for the construction of a breakwater including shore connection at Cape Lookout.

Earthwork—New Orleans, La.—The following are the bids received for the construction of approximately 2,157,500 cu.yd. of levee work in the Lower Tensas, Atchafalaya, Lafourche, Barataria, Pontchartrain, and Lake Borgne Levee Districts:

LOWER TENSAS LEVEE DISTRICT

Levee	Cu.Yd.	Contractor	Price Cu.Yd. (c)
Carthage	119,000	Robt. Nicholson, Lake Providence, La.	12.87
Ione	122,000	W. C. Mullen, Vicksburg, Miss.	12.4
White Oak Lake, Lot No. 1	119,000	L. E. Pickett, Natchez, Miss.	16.7
White Oak Lake, Lot No. 2	119,000	Israel R. Bobbitt, Vidalia, La.	19.7
White Oak Lake, Lot No. 3	119,000	L. E. Pickett, Natchez, Miss.	16.93
Kempe, Lots 1 and 2	240,000	Hercules Co., Ltd., New Orleans, La.	21.0
ATCHAFALAYA LEVEE DISTRICT			
Upper Longwood	104,500	Dameron-White Co., Ltd., New Orleans	16
Old Hickory	103,500	Dameron-White Co., Ltd., New Orleans	16
Upper Cocoa	107,500	Dameron-White Co., Ltd., New Orleans	16
Lower Cocoa	109,000	Dameron-White Co., Ltd., New Orleans	16
Lacour, Lot No. 1	109,000	Dameron-White Co., Ltd., New Orleans	16
LAFOURCHE LEVEE DISTRICT			
Pleasant Point	150,000	R. T. Clark & Co., Natchez, Miss.	8.98
Louderdale	9,500	W. E. Geren, Baton Rouge (rejected)	25
BARATARIA LEVEE DISTRICT			
Nairn	25,000	H. Hedberg & Co., Melville, La.	21
PONTCHARTRAIN LEVEE DISTRICT			
Arlington	155,000	E. S. Stacy, Blanks Levee Co. and J. A. Burt, Vicksburg, Miss.	13
Cottage	122,000	Dameron-White Co., Ltd., New Orleans	10
LAKE BORGNE LEVEE DISTRICT			
Chalmette	25,000	O. A. Gibson & Sons, New Orleans, La.	12.8
Mereaux	40,500	O. A. Gibson & Sons, New Orleans, La.	12.8
Millaudon	11,500	Lower Coast Construction Co., Pointe-a-la-Hache, La.	11.74
St. Clair	66,500	O. A. Gibson & Sons, New Orleans, La.	12.4
Woodlawn to Delair	54,000	O. A. Gibson & Sons, New Orleans, La.	12.4
Monsecour to St. Sophie	66,000	O. A. Gibson & Sons, New Orleans, La.	12.4

✚**Rock**—New Orleans, La.—The contract for furnishing and delivering 40,000 tons of rock on the Mississippi River between Greenville, Miss., and New Orleans, La., has been awarded to LESTER F. ALEXANDER, New Orleans, at $12,300 and the BIG ROCK STONE AND CONSTRUCTION CO., Little Rock, Ark., at $49,725. Noted Oct. 22 and Nov. 5.

Post Office—Fayetteville, Tenn.—Bids were received as follows, by the Superv. Arch., Treasury Dept., Washington, D. C., for the construction of a post office at Fayetteville, (a) limestone, stucco-facing, (b) sandstone, stucco facing, (c) limestone, brick facing, (d) sandstone, brick facing: George W. Stiles Construction Co., (a) $35,300, (c) $37,400; R. P. Farnsworth & Co., Owensboro, Ky., (a) $35,500, (b) $35,700; (c) $36,500, (d) $37,000. Dayton Construction Co., Dayton, Ohio, (a) $35,897; (b) $36,335, (c) $37,050, (d) $37,950. Algernon Blair, Montgomery, Ala., (a) $36,365, (b) $37,000, (c) $39,215, (d) $40,500. J. L. Crouse, Greensboro, N. C., (a) $36,467, (b) $36,967, (c) $37,400, (d) $37,703. William H. Fissell & Co., New York, N. Y., (a) $37,338, (b) same, (c) $38,273, (d) $38,773. George A. Shaul, Seneca, Kan., (a) $38,455, (c) $39,605. Mayborn & Fraechtel, Gadsden, Ala., (a) $39,068 (b) $39,492; (c) $40,041; (d) $41,087. James Devault, Canton, Ohio, (a) $39,700, (b) $40,100, (c) $41,919, (d) $42,500. George A. Clayton, Atlanta, Ga., (a) $40,064, (b) $40,220, (c) $41,516, (d) $41,671. H. D. Brown & Co., Miami, Ariz., (a) $43,815, (b) $44,000, (c) $45,425, (d) $45,610. Rock City Construction Co., Nashville, Tenn., (a) $45,826, (b) $46,077, (c) $47,131, (d) $47,959. Noted Oct. 8.

Levee Work—Memphis, Tenn.—Bids will be received by the Mississippi River Commission, Custom House, Memphis, until 11, a.m., Nov. 25, for constructing about 800,000 cu.yd. of levee work in the Upper and Lower St. Francis and White River levee districts.

✚**Brush and Poles**—Memphis, Tenn.—The contract for furnishing 24,500 cords of brush and poles for revetment work in the first and second districts, Mississippi River, has been awarded to the TENNESSEE CONTRACTING CO., Memphis, Tenn., at $46,550. Noted Nov. 5.

✚**Steel Deck Barges**—Cincinnati, Ohio—The contract for constructing two steel deck barges has been awarded to the AMERICAN BRIDGE CO., Cincinnati, at $19,400. Noted Oct. 15.

Steel Hull—Cincinnati, Ohio—The following are the bids received for constructing and delivering steel hull for dipper dredge "Carrollton:" Hartmann Greiling Co., Green Bay, Wis., (a) one steel hull, delivered at Carrollton, Ky., $13,280; (b) one steel hull delivered at shipyard, $11,280; Jones & Laughlin Steel Co., (a) $10,925; (b) $10,655; Dubuque Boat & Boiler Works, Dubuque, Iowa, (a) $71,546; Charles Hegewald Co., New Albany, Ind., (a) $9,459, (b) $9399; Milwaukee Bridge Co., Milwaukee, Wis., (a) $10,740; Edward J. Howard, Jeffersonville, Ind., (a) $10,450, (b) $10,350; Pittsburgh-Des Moines Steel Co., Pittsburgh, Penn., (a) $10,138, (b) $9938; American Bridge Co., Cincinnati, (a) $8888, (b) $8625; Rock Island Bridge & Iron Works, Rock Island, Ill., (a) $9028. Noted Oct. 29.

Repairs To Post Office—Springfield, Ohio—Bids were received by the Custodian, U. S. post office, for repairs to the U. S. post office, Springfield, from Sieverling & Fairbain, Springfield, at $11,030, and the Grohue Contracting Co., Joliet, Ill., at $6370.

✚**Post Office**—Portland, Ind.—The contract has been awarded for the construction of a post office at Portland, to DUNLAP & CO., Columbus, Ind., at $44,926. Noted Sept. 17.

✚**Post Office**—Cadillac, Mich.—The contract for constructing the U. S. post office at Cadillac has been awarded to C. HOERTZ & SON, Grand Rapids, Mich., at $65,378. Noted Oct. 8.

✚**Post Office**—Princeton, Ill.—The contract has been awarded for the construction of a post office at Princeton to W. C. CARTER CO., Chicago, Ill., at $55,645. Noted Sept. 24 and Nov. 12.

✚**Canal Work**—Dodson, Mont.—The contract for the reconstruction of the Dodson South Canal at Dodson Bridge, has been awarded to JAMES O'CONNOR, Council Bluffs, Iowa, at $33,895 for Schedule 1, and the SECURITY BRIDGE CO., Minneapolis, Minn., at $3060 for Schedule 2. Noted Sept. 24 and Nov. 12.

★**Earthwork**—Great Falls, Mont.—Bids will be received by the U. S. Reclamation Service, Great Falls, until 2 p.m., Dec. 22, for earthwork on Greenfields Distribution System, Greenfields, South and Mill Coulee Canals, involving about 385,000 cu.yd. of excavation. The work is situated on the north side of Sun River, about 25 miles northwest of Great Falls, Mont., about six miles north of Fort Shaw, Mont., on the Sun River Branch of the Great Northern Railway, and about six miles south of the towns of Bole, Sloan and Cordova, Mont., on the Chouteau Branch of the Great Northern Ry.

★**Excavation Construction**—St. Ignatius, Mont.—Bids will be received by the U. S. Reclamation Service, St. Ignatius, until 2 p.m., Dec. 22, for the construction of structures on Pablo Laterals "A" and "31A" and sub-laterals, involving about 9500 cu.yd. of excavation, 1050 cu.yd. of concrete, 4000 sq.yd. of paving, the placing of about 73,500 lb. of reinforcing steel, and the manufacturing and laying of about 2100 lin.ft. of concrete pipe. The work is situated on the east side of the Flathead River, from six to 12 miles southwest of Polson, Mont.

Post Office—La Junta, Colo.—Bids will be received by Oscar Wenderoth, Superv. Arch., Treasury Dept., Washington, D. C., until 2 p.m., Jan. 4, for constructing a post office at La Junta. The building will be two stories and basement of stone and terra cotta.

Canal Work—Provo, Utah—The lowest bids submitted for constructing sections of the High Line Canal were from the Mendenhall, Straw, Bird Construction Co., Springfield, Utah, for Divisions 1 and 3 at $47,465 and $37,508, respectively and Rideout & Andrews for Division 2 at $25,897.

★**Buildings, Etc.**—Fort Huachuca, Ariz.—Bids will be received until 1 p.m., Dec. 21, by the Constructing Quarter Master for five captain's double quarters, one bachelor officer's quarters, five barracks, seven stables, one hay shed and for remodeling buildings 19, 21, 58 and 60.

✚**Wood Stave Pipe**—Benton City, Wash.—The contract has been awarded to the PACIFIC TANK & PIPE CO., Portland, Ore., at $7263, for the construction of about 3000 lin.ft. of wood stave pipe in connection with the Sunnyside irrigation project.

✚**Timber Wharf, Wharf Shed**—Bremerton, Wash.—The contract for constructing the timber wharf and wharf shed of the naval torpedo station, Puget Sound, Wash., has been awarded to FLEINES & DAHL, 5646 47th Ave. S. W., Seattle, at $6989. Noted Sept. 24 and Oct. 22.

✚**Dredging and Jetty Work**—Port Townsend, Wash.—The contract for dredging and jetty construction in Port Townsend Bay and Oak Bay, Wash., has been awarded to PUGET SOUND BRIDGE & DREDGING CO., Seattle, Wash., at $51,485. Noted Oct 8 and Nov. 5.

MISCELLANEOUS

★**Tunnel**—Boston, Mass.—(Official)—Bids for building Section E, Dorchester Tunnel, will be received by the Boston Transit Commission, B. Leighton Beal, Secy., until noon, Dec. 15. The section is located under and near the Fort Point Channel, extending from a point in Summer Street about 200 ft. west of the Channel to a point about 80 ft. north of the corner of West Second St. and Dorchester Ave. in South Boston, a distance of about 3200 ft. The tunnel will be of concrete and for a length of about 3000 ft. it will consist of two tubes, each tube to be built inside of a circular shield and to have an outside diameter of about 24 ft. The part under the Channel is to be constructed in compressed air. Specifications and forms of contract can be obtained at 15 Beacon St. See advertisement under "Contracts To Be Let."

Foot and Wagon Tunnel—Boston, Mass.—A teaming and pedestrian tunnel to East Boston, which would parallel the tube now used by trolley cars, has been proposed by the Mayor in a communication to the Transit Commission. The

estimated cost of the project, which is still in the embryo stage, is $3,000,000.

Barge Canal Work—Albany, N. Y.—The following bids were received Nov. 20, by Duncan W. Peck, State Supt., Pub. Wks., for Contract J, for constructing the subsfructure, superstructure and approaches of a highway bridge over the Cayuga and Seneca Canal at Fourth St., Watkins, and for constructing a section of dockwall: Oswego Construction Co., $47,646; Chesley, Earl & Heimbach, $48,065; Walsh Construction Co., Davenport, Iowa, $48,204; Brooks & Julian, $48,883; Barrally & Ingersoll, $48,970; Frank L. Cohen, $49,020; Seneca Engineering Co., $49,226; John Kelly, $50,722; D. L. Taylor & Co., $51,413; L. B. Cleveland, $51,590; Drake & Dean Co., Inc., $52,125; Scott Bros., $53,412; Lathrop Shea & Henwood Co., $53,746; Flood & Van Wirt, $55,720.

Bids were also received as follows for Terminal Contract No. 29; constructing a harbor, dockwall and two breakwaters in Oneida Lake, Constantia, N. Y.: Barraly & Ingersoll, $38,733; Eastover Construction Co., $42,727; James Stewart & Co., Inc., $47,376. Noted Oct. 29.

✚**Barge Canal Work**—Albany, N. Y.—Duncan W. Peck, State Supt., Pub. Wks., has awarded Contract G, Cayuga and Seneca Canal, to LUPFER & REMICK, Buffalo, at $110,115. Noted Oct. 15, Nov. 19.

★**Subway**—New York, N. Y.—(Borough of Manhattan)—(Official)—The Public Service Commission for the First District, 154 Nassau St., will receive bids until Dec. 11, for the construction of Section No. 4 of Routes No. 4 and 36, a part of the Broadway-Fourth Ave. Rapid Transit railway in the Borough of Manhattan. For details see advertisement under "Contracts to Be Let."

★**Sanitary Work**—Rochester, N. Y.—(Official)—Bids will be received by the State Hospital Commission, Capitol, Albany, until 3 p.m., Dec. 4, for new sanitary work at the Rochester State Hospital, Rochester, N. Y. For details see advertisement under "Contracts To Be Let."

Stadium—Rochester, N. Y.—The Trustees of Rochester University are having plans prepared for the construction of a stadium. A 15-acre tract of land will be purchased and a new athletic field laid out. The estimated cost of the improvements is $50,000.

✚**Tug Boat**—Tonawanda, N. Y.—The Tonawanda & Green Island Ferry Co. has awarded the contract for building a steel tug boat, to the COWLES SHIPYARDS CO., Buffalo.

Fire Station—Arlington, N. J.—The North Arlington Borough Council contemplates the construction of a fire station on Kearny Ave.

Fire Station—Hoboken N. J.—Bids will be received until, Dec. 9, by the City Clerk, City Hall, Hoboken, for the construction of a fire station.

Waiting Stations—Hoboken, N. J.—The Board of Public Utility Commissioners has directed the Public Service Ry. Co. to build inclosed waiting stations on its elevated line at Washington, Willow and Henderson St.

Fire Station—Rahway, N. J.—The City Council plans to construct a fire station on lower Main St. for Lincoln Hook & Ladder Co. No. 2.

★✚**Bulkhead & Terminal Basin**—Trenton, N. J.—(Official)—The city has awarded the contract for the construction of a bulkhead and terminal basin near Ferry St. in the Delaware River, to the AMERICAN PAVING & CONSTRUCTION CO., Philadelphia, Penn., at $40,461. Frank Thompson is City Clk. Noted Aug. 27.

Fire Apparatus—Union, N. J.—Bids will be received until 8 p.m., Nov. 30, by the Board of Council for fire apparatus. E. Bautz, Jr., is Town Clk. (J. W. H.)

Stock Yard Improvements—Pittsburgh, Penn.—(Official)—R. B. Burgess, Consult. Engr., Pittsburgh, has been commissioned by the Pittsburgh Union Stock Yards Co. to make a complete physical valuation of its property on Herrs Island; also to prepare plans for a new pump house, mule pens, and foundations and basement for the fertilizer building. Catalogs are desired from manufacturers who are interested.

✚**Comfort Station**—Scranton, Penn.—(Official)—The general contract for the construction of the public comfort station has been awarded to PETER STIPP & SONS, Scranton, at $14,744. William A. Schunk is City Engr. Noted Sept. 24, Oct. 2, Nov. 9.

✚**Pier**—New Castle, Del.—According to press reports, the BETHLEHEM STEEL WORKS has been awarded a contract for the construction of a 400-ft. steel pier which will be used in connection with a $300,000 plant being built for the manufacture of loaded projectiles.

Breakwater—Baltimore, Md.—According to press reports the Park Board has decided to build a breakwater at Fort McHenry to protect the proposed bathing beach, piers and boat clubs. The estimated cost is $37,000, which will be paid for out of the $1,500,000 harbor loan passed at the last election.

✚**Tunnel and Grading**—Berwind, W. Va.—The Norfolk & Western Ry., Roanoke, Va., J. E. Crawford, Ch. Engr., has awarded the contract for the construction of a tunnel on Jacob's Fork and five miles of grading, to J. J. BOXLEY SON & CO., Bedford City, Va. The estimated cost is about $250,000.

Seawall and Filling—Fort Pierce, Fla.—City has had surveys made and plans will be prepared for the construction of a seawall with back fill, along the river front. It will extend from the mouth of the canal to the Court House grounds, about 300 ft. from shore line. The J. B. McCrary Co., Engrs., Atlanta, Ga., will prepare the plans.

✚**Memorial Terrace**—Put-In-Bay, Ohio—(Official)—The Interstate Board of the Perry's Victory Centennial Commission has awarded the contract for completing the Perry Memorial Terrace to the STEWART ENGINEERING CORPORATION, 17 Battery Pl., New York. The work covered by the contract extends over 14 acres and includes a reinforced-concrete terrace, resting on piles; granite and sandstone masonry; brick paving; dredging, excavating and filling; and all the landscape gardening. J. H. Freedlander and C. D. Seymour, 224 Fifth Ave., New York, are the Associate Archs.

✚**Motor Fire Apparatus**—Toledo, Ohio—The Board of Control has awarded the following contracts for motor driven combination and chemical wagons: GAMBLE MOTOR CAR CO., at $60,600, for furnishing 12 cars; SEAGRAVE CO., at $15,809, for three cars; ROBINSON FIRE APPARATUS MFG. CO., St. Louis, at $10,450, for two cars.

Retaining Wall—Fort Wayne, Ind.—(Official)—Bids will be received until 7 p.m., Dec. 3, by the Board of Public Works, for the construction of a concrete wall along the West side of St. Joseph Blvd., from Columbia Ave. to McDougal Ave. H. W. Becker is Clk.

Drain—Portland, Ind.—Bids will be received until, Dec. 23, by W. H. Badders, Supt., for excavating 240,000 cu.yd. earth and constructing five miles of open and tile drain.

✚**Ditches**—Blue Earth, Minn.—The following contracts for constructing ditches have been awarded: Ditch No. 20, 153,664 yd. open work and 459,000 ft. tile, MULGREN BOYCE CO., Dubuque, Iowa, at 10c. per cu.yd. (open work), SCHULTZ & BUCK, Clarion, Iowa, at $70,000 (tile work); ditch No. 24, about 19,000 ft. tile, D. C. ARMSTRONG, at $6400; ditch No. 23, 42,000 ft. tile, CARL C. KUNDSEN at $14,137. Noted Nov. 5.

Ditch—Duluth, Minn.—The County Board has commissioned A. E. Dyer, retiring County Surv., to prepare plans for the construction of County Ditch, No. 4. It will be 18 miles long, passing through townships 19, 20, 52, 53 and 54.

Park Bonds—Duluth, Minn.—The City Commission has authorized an issue of $50,000 in bonds for buying parks and parkways. About $26,000 will be used for the purchase of Fairmont Park extension in West Duluth.

✚**Canal Reconstruction**—Malta, Mont.—The contract for reconstructing certain sections of the Dodson South Canal has been awarded to the JAMES O'CONNOR CO., Council Bluffs, Iowa, at $33,895. The contract for reinforced concrete work has been awarded to the SECURITY BRIDGE CO., Minneapolis, Minn.

✚**Grading**—Kansas City, Mo.—The contract for grading the plot in front of the Union Station, which will be used as a park, has been awarded to W. C. MULLINS, at $40,000. Curtis Hill is City Engr.

✚**Drainage**—Bloomer, Wis.—The contract for draining 500 acres of land in the Lafayette Drainage District has been awarded to the WISCONSIN DRAINAGE CO.

Drainage—Marion, Ark.—(Official)—Bids will be received until noon, Dec. 7, by W. H. Newsom, Engr., Drainage District No. 2, Crittenden County, for the excavation of 5,164,000 cu.yd. of earth, floating dredge work; about a mile and a half designed as team work.

Stockyard—El Paso, Tex.—The Cattlemen's Stockyards Association has been organized here and plans to construct stockyards for the handling of Mexican cattle. The company has a capital stock of $500,000.

Dock—Orange, Tex.—The city plans to construct a dock, 400 ft. long, extending from Second to Third St.

Drainage Districts—Roswell, N. M.—Four drainage districts have been organized in Chaves County, for draining 54,000 acres of land. They are as follows: Dexter-Greenfield, 19,800 acres; Roswell District, 15,000 acres; Hagerman District, 7000 acres; East Grand Plains District, 12,000 acres. About 370 miles of tile drain will be laid, estimated to cost $700,00. H. W. Vauchelet is the Engr. for the first three districts. W. A. Wilson for the fourth.

Fire Department and Park Improvement Bonds—Tucson, Ariz.—An election will be held, on Dec. 14, to vote $225,000 in bonds for municipal improvements. Of this sum $25,000 will be used for park improvements and $50,000 for the fire department.

Drainage—Grandview, Wash.—The Commissioners of Yakima County announce that a second bond issue of $100,000 will be necessary to construct the pumping plant in connection with the drainage of 5000 acres of land, by Yakima County and the government. Bids for machinery will be asked for shortly.

Ferry Slip Extension—Seattle, Wash.—The Port of Seattle, J. R. West, Ch. Engr., is having plans prepared for a 100-ft. extension of the West Seattle ferry slip, at the foot of Marion Street. Preliminary plans have been completed. The estimated cost is $20,000.

✚**Vessel**—Seattle, Wash.—The contract for converting the steamer "Dirigo" into an oil burner for the Alaska line has been awarded to the COMMERCIAL BOILER WORKS, at $30,000.

✚**Fire Protection System**—Seattle, Wash.—The contract for fire protection in the Hanford St. storage shed has been awarded to the AUTOMATIC SPRINKLER CO., at $15,583.

Vessel—Seattle, Wash.—The Puget Sound Navigation Co. is having plans prepared for a geared turbine, 24-knot passenger boat.

Dock Reconstruction—Seattle, Wash.—The Grand Trunk Pacific Steamship Co., whose dock was recently destroyed by fire, is having plans prepared for its reconstruction. It will be two stories, slow burning, with corrugated iron exterior. The estimated cost is $75,000.

Escalators—Seattle, Wash.—The City Council plans to install escalators on Seneca St., between Second and Fourth Ave. Estimated cost, $20,000.

✚**Dredging**—Tacoma, Wash.—Pierce and King Counties have awarded the contract for dredging the Puyallup River, to CROSS, ROLLINS & CO., Seattle, at $250,000. Noted Sept. 17.

✚**Drainage**—Walla Walla, Wash.—The Commissioners of Walla Walla County have awarded the contract for the construction of a drainage system in District No. 2, to HANS PEDERSON, Seattle, at about $39,375. J. W. Sweazy is County Clk. Noted Oct. 22.

Railway Terminal—The Dalles, Ore.—The Oregon-Washington Ry. & Navigation Co. plans to install freight terminal facilities and a 36-engine roundhouse, at an estimated cost of $140,000. J. D. Farrell, Portland, Ore., is Pres.

✚**Wharves and Bulkhead**—Richmond, Calif.—The contract for the construction of wharves and a bulkhead in the Ellis Landing Ship Canal has been awarded to the PACIFIC CONSTRUCTION CO., at $66,000. Haviland & Tibbetts, San Francisco, are Engrs.

Drydock—San Francisco, Calif.—According to press reports, the Union Iron Works, John I. McGregor, Pres., has had plans and specifications prepared for the construction of a drydock at Hunters Point, estimated to cost $2,000,000. It will be 1000 ft. long and 140 ft. wide.

✚Pier—San Francisco, Calif.—The Panama-Pacific International Exposition Co. has awarded a contract for the construction of a pier and launchway on the Exposition grounds, to the THOMSON BRIDGE CO., at $12,320.

✚Creek Improvement—New Dublin, Ont.—The contract for excavating rock and earth from the bed of Mud Creek has been awarded to MACDONALD & CODE, Smith Falls, at $1.20 and $2.25 per cu.yd. for rock; 50c. per cu.yd. for earth. Noted Oct. 29.

Pavilion Repairs—Ottawa, Ont.—W. E. Noffke, Arch., 45 Rideau St., Ottawa, is preparing plans for improvements which will be made to the Aberdeen Pavilion, Lansdowne Park. The estimated cost is $22,000.

✚Coal Handling Plant—Toronto, Ont.—The contract for installing coal handling apparatus at the main pumping station in Toronto has been awarded to PHILLIPS LANG & CO., Chicago, Ill., at $22,800.

Fire Stations—Windsor, Ont.—Plans are being prepared and bids will be received in the near future for the construction of two fire stations. The estimated cost is $75,000. Leybourne & Whitney are Archs.

BUILDINGS

✚Fall River, Mass.—The contract for the construction of a building for the Five Cents Savings Bank has been awarded to HOGGSON BROS., 7 East 44th St., New York, N. Y. The estimated cost is $200,000.

✚Pittsfield, Mass.—The contract for the construction of the addition to the Dawes school, has been awarded to BECKWITH & PIKE, at $60,534. Noted Nov. 5.

✚Pawtucket, R. I.—The contract for the construction of the station at Pawtucket, for the New York, New Haven & Hartford R.R. has been awarded to NORCROSS BROS. CO., 10 East Worcester St., Worcester, Mass. The estimated cost is $200,000. Noted Oct. 1.

Bridgeport, Conn.—Skinner & Walker, Archs., 1188 Main St., are receiving bids for the construction of almshouse buildings to be erected near Palisade Ave. The estimated cost is $175,000. Noted Oct. 22.

✚Derby, Conn.—The contract for the construction of the high school at Derby, has been awarded to MAX M. DURRSCHMIDT, at $46,454. Noted Sept. 3.

Geneva, N. Y.—Leon H. Lempert & Son, Archs., Cutler Bldg., are preparing plans for the construction of a moving-picture theater on Exchange St., for T. H. Sweeney & Son, 81 Seneca St. The estimated cost is $80,000.

Hornell, N. Y.—Lee Chase, Arch., 388 Lafayette Ave., Buffalo, N. Y., is preparing plans for the construction of a three-story hotel and theater on Main St. The estimated cost is $125,000.

★Hudson, N. Y.—(Official)—Bids will be received until 2 p.m., Dec. 19, by Mary Hinckley, Pres., Bd. of Managers, New York State Training School for Girls, Hudson, for the construction, heating, plumbing and electric work and electric elevator of the hospital buildings, storehouse and refrigerating plant and equipment at the New York State Training School for Girls, Hudson, N. Y. For details see advertisement under "Contracts To Be Let." Noted Nov. 12.

Jamestown, N. Y.—C. C. Pederson, Arch., 119 Lakeview Ave., is preparing plans for the four-story brick lodge and office building at Fourth and Pine St., for the B. P. O. E. The estimated cost is $35,000.

Lake George, N. Y.—Ludlow & Peabody, Archs., 101 Park Ave., New York, are preparing plans for rebuilding the four-story hotel at Sagamore Landing, for the Green Island Improvement Co. The estimated cost is $50,000. J. B. Simpson, 23 West 42d St., New York, is Pres.

New York, N. Y.—(Borough of Bronx)—Buchman & Fox, Archs., 30 East 42d St., are preparing plans for a pavilion to be erected at Gun Hill Rd. and Bainbridge Ave., for the Montefiore Home. The estimated cost is $200,000.

New York, N. Y.—(Borough of Manhattan)—(Official)—Bids will be received, until 2 p.m., Dec. 4, by the Board of Trustees, Bellevue Hospital, 415 East 26th St., for making the necessary alterations to the main building of the Harlem Hospital, 136th St. and Lenox Ave.

New York, N. Y.—(Borough of Manhattan)—(Official)—Bids will be received by the Board of Trustees, Bellevue Hospital, until 3 p.m., Dec. 4, for making the necessary alterations to the power house and ambulance station at the Harlem Hospital.

BARGE CANAL WORK, ALBANY, N. Y.

Bids were received by Duncan W. Peck, State Supt. Pub. Wks., Albany, N. Y., Nov. 5, for Contract 10-C, Oswego Canal, Section 1, for filling portions of the abandoned Oswego Canal and the removal of the bridge at Oneida St., Fulton, N. Y., from (A) Eastover Construction Co., Inc., Utica; (B) A. L. Anderson & Bros., Inc., Altoona, Penn.; (C) Cleveland & Sons Co., Brockport; (D) State Highway Construction Co., Beacon; (E) I. M. Ludington's Sons, Inc., Rochester; (F) C. F. Hookway Construction Co., Syracuse; (G) Owen McNally, Oswego; (H) Lathrop, Shea & Henwood Co., Buffalo; (I) Chesley, Earl & Heimbach, Inc., Buffalo; (J) J. H. Gallup, Fred Pierce, Syracuse, and T. C. Lowry, Fulton; (K) Flood & Van Wirt Co., Hudson Falls; (L) Carver Construction Co., Fulton; (M) E. W. Foley Construction Co., New York; (N) Lupfer & Remick, Buffalo; (O) Roger B. Kennedy, Utica; (P) J. A. Culkins Co., Oswego; (Q) Oswego Construction Co., Inc., Fulton; (R) S. R. ROSOFF, Herkimer, (awarded contract); (S) Parker & Beebe, Waterford; (T) Richards & Gaston, Inc., New York; (U) F. D. Dutcher, Fulton; (V) Norton & Gorman Contracting Co., Brooklyn; (W) Drilling Contracting Co., Albany. The item bids were as follows:

Contract 10 C

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W
Removal of debris (lump sum)	$100.00	$100.00	$100.00	$100.00	$100.00	$100.00	$100.00	$100.00	$100.00	$100.00	$100.00	$100.00	$100.00	$115.00	$100.00	$100.00	$100.00	$100.00	$100.00	$100.00	$100.00	$100.00	$120.00
1650 sq.yd. removing cement walk and brick pavement	0.40	0.40	0.40	0.38	0.40	0.20	0.30	0.40	0.35	0.25	0.30	0.30	0.40	0.30	0.25	0.20	0.36	0.25	0.30	0.40	0.38	0.40	0.40
175 lin.ft. removing existing curb	0.25	0.25	0.25	0.25	0.25	0.20	0.10	0.25	0.25	0.15	0.25	0.20	0.25	0.20	0.25	0.25	0.18	0.25	0.25	0.25	0.25	0.25	0.25
Removing bridge (lump sum)	1800.00	1500.00	1500.00	1200.00	1500.00	500.00	1500.00	1500.00	1200.00	1000.00	250.00	850.00	1000.00	1700.00	1100.00	1000.00	200.00	150.00	1500.00	1400.00	1500.00	1300.00	480.00
70,000 cu.yd. filling	0.55	0.40	0.52	0.43	0.445	0.58	0.55	0.48	0.53	0.45	0.50	0.50	0.38	0.51	0.485	0.43	0.475	0.39	0.40	0.41	0.54	0.47	0.580
5300 cu.yd. forming embankment	0.75	0.80	0.75	0.58	0.60	0.65	0.60	0.75	0.65	0.55	0.61	0.60	0.50	0.70	0.68	0.70	0.62½	0.45	0.70	0.75	0.71	0.55	0.90
3500 sq.ft. cement sidewalks	0.15	0.17	0.15	0.15	0.15	0.15	0.125	0.15	0.14	0.12	0.15	0.13	0.15	0.15	0.15	0.14	0.12	0.15	0.15	0.16	0.15	0.15	0.10
2800 sq.yd. brick pavement	2.40	2.52	2.40	2.37	2.25	2.20	2.40	2.40	2.50	2.30	2.00	2.40	2.40	2.00	2.40	2.40	1.80	2.30	2.25	2.50	2.35	2.40	2.30
400 lin.ft. stone curbing	1.00	1.00	1.00	0.90	1.00	1.00	1.00	1.00	1.00	0.90	0.90	0.90	1.00	0.85	1.00	0.90	0.90	0.90	1.00	1.00	1.00	1.00	1.10
70 lin.ft. resetting stone curbing	0.20	0.20	0.20	0.20	0.20	0.20	0.10	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.24	0.20	0.20	0.20	0.20	0.20	0.20
200 lin.ft. w.i. pipe railing	1.00	1.00	1.00	0.90	1.00	1.00	1.00	1.00	1.00	0.80	1.20	0.85	1.00	1.00	1.00	1.00	0.90	1.00	1.00	1.00	1.00	1.00	1.00
170 sq.yd. removing and relaying stone block pavement	2.00	2.00	2.00	2.00	2.00	2.00	1.50	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	1.80	2.00	2.00	2.00	2.00	2.00	2.00
Constructing drain entrance at Guard Lock No. 3 (lump sum)	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	24.00	20.00	20.00	18.00	20.00	20.00	20.00	20.00	20.00	24.00
Drain south of Oneida St. (lump sum)	60.00	60.00	60.00	60.00	60.00	60.00	50.00	60.00	60.00	60.00	60.00	55.00	60.00	70.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00
Oneida St. drain (lump sum)	80.00	80.00	80.00	80.00	80.00	80.00	75.00	80.00	80.00	80.00	80.00	75.00	80.00	95.00	80.00	80.00	84.00	80.00	80.00	80.00	80.00	80.00	80.00
Maintaining highway traffic (lump sum)	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	90.00	115.00	100.00	100.00	90.00	100.00	100.00	100.00	100.00	100.00	120.00
Extended totals	$53,538	$47,009	$51,138	$43,460	$44,673	$52,909	$52,017	$48,358	$51,170	$43,948	$46,461	$48,009	$39,503	$49,078	$47,669	$43,668	$44,069	$38,490	$41,888	$43,653	$52,153	$46,328	$57,377

Yonkers, N. Y.—The lowest bidder received for the construction of the Y. M. C. A. building at Riverdale Ave. and Hudson St., was that of George T. Kelly, 20 John St., Yonkers, at $122,268 Noted Nov. 12.

George Howard Chamberlain, Arch., 18 South Broadway, is preparing plans for the four-story brick high school, for the Board of Education.

Atlantic City, N. J.—The City Commissioners are considering the construction of a convention hall on Albany Ave. The estimated cost is $100,000.

Belleville, N. J.—Charles Granville Jones, Arch., 280 Broadway, New York, has completed plans for the high school on Washington Ave. and Holmes St., for the Board of Education. The estimated cost is $105,000.

✚**Englewood, N. J.**—The metal work contract for two brick and terra cotta additions to the Englewood Hospital, has been awarded to DANIEL McGRATH, 185 Moore St., Hackensack, N. J.

Jersey City, N. J.—Bids are being received by E. C. Horn, Sons, Archs., 1476 Broadway, New York, for alterations to the theater and dance hall at 57 Newark Ave., for the Hill

STATE HIGHWAYS, CALIFORNIA

Bids were received, Nov. 9, by the State Highway Commission, Sacramento, Calif., for constructing state highways in Glenn, Colusa, Imperial and Solano Counties, from (A) Fred Leffler, San Francisco; (B) Petersen & Grier, San Francisco; (C) Tieslau Bros., San Francisco; (D) P. L. Burr, San Francisco; (E) C. W. Cross, Oakland; (F) Chico Construction Co., Chico; (G) P. H. Hoare, Oakland; (H) Rochelt, Kearney & Co., Los Angeles; (I) Bates, Borland & Ayer, Oakland; (J) E. T. Johnson, Portland, Ore.; (K) A. W. Gorrill, San Francisco; (L) W. F. Callahan & P. L. Hendrick, El Centro; (M) Rice & Dutcher, Imperial; (N) Brashear-Burns Co., Los Angeles; (O) J. W. Calback, San Diego; (P) Commary-Peterson Co., Inc., San Francisco. The item bids were as follows:

Imperial County	L	M	N	O
19,300 cu.yd. excavation, without classification	$0.30	$0.72	$0.45	$0.50
104 lin.ft., 18-in. corrugated iron pipe	0.45	0.70	0.80	0.60
52 lin.ft., 24-in. corrugated iron pipe	0.70	1.00	0.90	0.70
38 lin.ft., 30-in. corrugated iron pipe	1.00	1.50	0.95	0.80
25 cu.yd. concrete, class B, for culverts and monuments	9.50	13.00	11.00	8.00
11,500 cu.yd. concrete, class B, for pavement	4.90	4.95	5.99	5.75
1200 lin.ft. guard rail	0.55	0.55	0.75	0.50
124 monuments	0.60	1.50	1.00	0.60
Extended totals	$63,233	$72,174	$79,035	$76,779

Solano County	A	C	D	G	I	K	P
20,000 cu.yd. excavation, without classification	$0.75	$0.80	$0.60	$0.65	$0.69	$0.95	$0.75
200 lin.ft., 12-in. corrugated iron pipe	0.50	0.60	0.55	0.30	0.50	0.55	0.50
72 lin.ft., 18-in. corrugated iron pipe	0.75	0.75	0.70	0.40	0.60	0.65	0.75
120 lin.ft., 24-in. corrugated iron pipe	1.00	1.00	0.85	0.60	0.75	0.80	1.00
24 lin.ft., 36-in. corrugated iron pipe	1.50	1.50	1.00	0.80	0.75	1.00	1.50
100 cu.yd. concrete, class B, for culverts and monuments	10.00	11.00	9.50	11.50	10.00	10.00	11.00
8100 cu.yd. concrete, class B, for pavement	3.75	3.75	3.60	3.15	3.70	3.29	4.00
1050 lin.ft. guard rail	0.50	0.40	0.35	0.40	0.40	0.35	0.50
92 monuments	0.50	1.50	1.00	1.00	3.00	1.50	1.50
Extended totals	$47,256	$48,363	$42,832	$40,357	$45,717	$47,431	$49,473

Glenn County	A	B	C	D	E	F	G	H	I	J
22,000 cu.yd. excavation without classification	$0.75	$0.71	$0.75	$0.65	$0.60	$0.55	$0.75	$0.60	$0.73	$0.60
240 lin.ft., 18-in. corrugated iron pipe	0.75	0.60	0.75	0.60	0.35	0.90	0.45	0.50	0.60	0.50
264 lin.ft., 24-in. corrugated iron pipe	1.50	0.80	1.00	0.75	0.40	1.10	0.60	0.55	0.75	0.50
360 cu.yd. concrete, class B, for culverts and monuments	10.00	11.00	10.00	9.00	9.00	9.00	10.00	8.00	10.00	9.00
8400 cu.yd. concrete, class B, for pavement	3.10	3.50	3.50	3.31½	2.80	3.00	3.50	2.85	3.75	3.10
1500 lin.ft. guard rail	0.50	0.40	0.40	0.35	0.40	0.40	0.40	0.40	0.40	0.40
64 monuments	1.00	1.00	1.50	0.90	1.00	1.25	1.50	0.50	3.00	1.25
Extended totals	$47,530	$49,999	$50,640	$46,311	$40,814	$41,726	$50,462	$40,917	$52,294	$43,412

Colusa County	B	C	D	E	H	I	J	K
37,500 cu.yd. excavation without classification	$0.65	$0.70	$0.55	$0.68	$0.60	$0.59	$0.60	$0.67
120 lin.ft., 12-in. corrugated iron pipe	0.40	0.60	0.50	0.30	0.40	0.50	0.40	0.60
216 lin.ft., 18-in. corrugated iron pipe	0.60	0.75	0.65	0.35	0.50	0.60	0.50	0.60
48 lin.ft., 24-in.. corrugated iron pipe	0.80	1.00	0.80	0.40	0.55	0.75	0.75	0.80
150 cu.yd. concrete, class B, for culverts and monuments	12.00	12.00	10.50	9.00	8.00	10.00	10.00	11.00
8600 cu.yd. concrete, class B, for pavement	4.20	3.95	4.05	2.85	3.20	3.70	3.35	3.62
10,000 lin.ft. guard rail	0.40	0.40	0.30	0.35	0.40	0.30	0.40	0.35
71 mouuments	1.00	1.50	1.25	1.00	0.50	3.00	1.25	1.50
Extended totals	$66,582	$66,409	$60,358	$55,061	$55,438	$58,884	$57,091	$61,754

BARGE CANAL WORK, ALBANY, N. Y.

Contract G

Bids were received by Duncan W. Peck, State Supt. Pub. Wks., Nov. 10, for Contract G, Cayuga and Seneca Canal, for lock gates, lock valves and buffer beams for Locks 2, 3 and 4; needle beam for the spillway in Dam 2; superstructure for gates at Waterloo and guard gates at Locks 3 and 4, from (A) Penn Bridge Co., Beaver Falls, Penn.; (B) J. J. & J. B. Millholland Co., Pittsburgh, Penn.; (C) Larkin & Sangster, Seneca Falls; (D) Lupfer & Remick, Buffalo; (E) Whitehead & Kales Iron Works, Detroit, Mich.; (F) Sherman Stalter Co., Cleveland, Ohio. The item bids were as follows:

CONTRACT G

	A	B	C	D	E	F
221 M ft. b.m. dimension lumber in lock gates	$115.00	$108.00	$130.00	$120.00	$100.00	$110.00
22.4 M ft. b.m. yellow pine sawed lumber	65.00	71.00	65.00	65.00	65.00	60.50
127 cu.yd. second-class concrete	10.80	12.50	8.00	9.00	9.00	9.00
836,000 lb. structural steel	0.054	0.0438	0.054	0.04½	0.049	0.046
14,000 lb. metal reinforcement	0.03	0.0256	0.03	0.03	0.03	0.03
382,000 lb. machinery	0.107	0.1140	0.11¼	0.10½	0.09¾	0.10
278,000 lb. c.-i. counter-weights and keys	0.03	0.0346	0.03	0.007	0.029	0.026
Installing electrical equipment and testing	300.00	800.00	300.00	300.00	300.00	300.00
Extended totals	$123,921	$119,588	$128,981	$110,115	$112,290	$112,012

Arcade Realty Co., 75 Montgomery St. The estimated cost is $80,000.

Secaucus, N. J.—Joseph Lugosch, Arch., Kossuth St., Union Hill, is preparing plans for the county penitentiary to be erected at Snake Hill, Hudson County, N. J.

✚**Spring Lake Beach, N. J.**—The contract for the addition to the Monmouth Hotel, has been awarded to HORACE H. MOORE, Spring Lake Beach, at $100,000.

Johnstown, Penn.—Kenneth M. Murchison, Arch., 101 Park Ave., New York, is preparing plans for the construction of a station at Johnstown, for the Pennsylvania R.R. The estimated cost is $100,000.

★**Swatara Station, Penn.**—(Official)—Bids will be received by the Board of School Directors of Swatara Township, Dauphin County, Penn., for a duly authorized school bond issue of $17,000. John M. Erb is Secy., Harrisburg, Penn.

Monroe, La.—Bids will be received until 8 p.m., Dec. 15, by the Young Men's Hebrew Association, for constructing the temple for the Congregation of Bnai Israel.

Cincinnati, Ohio—Bids will be received until noon, Dec. 1, by Daniel Lawrence, University of Cincinnati, for the construction of the chemistry building. Estimated cost, $175,000. Tietig & Lee, Lyric Bldg., Cincinnati, are Archs. Noted Oct. 8.

✚**Cleveland, Ohio**—The contract for the construction of a six-story and basement, 71x149-ft. store building for the Tyroller Realty Co., has been awarded to ROY BLACK, 605 Sincere Bldg. Estimated cost, $200,000. Noted Sept. 10.

✚The contract for the construction of a six-story and basement, 100x185-ft. building on Euclid Ave. near East 14th St., for the Lindner Co., has been awarded to the CROWELL, LUNDOFF & LITTLE CO., 1957 East 55th St., Cleveland. Estimated cost, $400,000.

The Euclid Leasehold Assessment Co. plans the construction of a $75,000 building at 2018-2020 Euclid Ave. The construction will start in the spring.

✚**Columbus, Ohio**—The contract for the construction of a building on East Broad St., for the First Church of Christ, has been awarded to J. W. HECKART. The estimated cost is $80,000.

East Cleveland, Ohio—S. Deckelbaum, 2350 East 30th St., Cleveland, plans the construction of two apartment buildings at Superior Ave. and Forest Hill Rd. Estimated cost, $50,000.

Rocky River, Ohio—Steffens & Steffens, Archs., 1028 Williams Bldg., Cleveland, are preparing plans for the construction of a ten-story and basement, 50x125-ft. store building for Mathews & Gilbert Co., 911 Williams Bldg., Cleveland. Estimated cost, $100,000. Construction will begin in the spring.

✚**Detroit, Mich.**—The contract for the construction of a ten-story and basement store building for David Stott, of the David Stott Milling Co., Detroit, has been awarded to JAMES BLACK CONSTRUCTION CO., 212 West Washington St., Chicago, Ill. Estimated cost, $150,000. Marshall & Fox, 38 South Dearborn St., Chicago, Ill., are the Archs.

Chicago, Ill.—Regelin, Jenson & Co. has purchased a site for a syndicate which plans the construction of a 140x150-ft. apartment house on North Clark St. and Rogers Ave. Estimated cost, $175,000.

East St. Louis, Ill.—The Board of Education contemplates constructing a high school with a gymnasium on Ninth St. and Ohio Ave. Estimated cost, $200,000. D. Walton Potts is Supt. of the East St. Louis public schools.

Milwaukee, Wis.—Oscar Brachman plans to construct an apartment house on La Fayette Pl. and Summit Ave. Estimated cost, $50,000.

St. Paul, Minn.—Plans are being prepared by Clarence H. Johnson, Arch., for the construction of the $500,000 state historical library and supreme court building on Cedar St., between University and Sherburne Ave.

The Macalester Presbyterian Church contemplates the construction of a $50,000 building on the old site at Summit Ave. and Cambridge St.

C. A. Pear, Arch., is preparing plans for the construction of a 55x290-ft. building on Fairview Ave., between Selby and Hague Ave., Merriam Park, St. Paul, for D. C. McKenzie, Lake City, Minn. Estimated cost, $50,000.

Bozeman, Mont.—The following bids were received for the construction of the Y. M. C. A. building: H. O. Kolpen, Portland, Ore., $33,230; Leighland, Klepp & Co., Great Falls, Mont., $35,280; Olsen & Johnson Co., Inc., Missoula, Mont., $33,490; Gagnon & Co., Billings, Mont., $40,274; E. L. Bartholomew, Bozeman, Mont., $41,485. Noted Jan. 29.

St. Joseph, Mo.—(Official)—The contract for the construction of the four-story and basement fireproof building for the Methodist Episcopal Hospital will be awarded Mar. 1, 1915. Eckel & Aldrich, St. Joseph, are Archs. Noted Nov. 12.

St. Louis, Mo.—Lawrence B. Pierce plans the construction of a seven-story building at Broadway and Locust St., estimated to cost $400,000. The building will be used as the ticket offices for the Wabash, Missouri Pacific, Missouri Kansas & Texas, and the Chicago Burlington & Quincy railways.

St. Louis, Mo.—The St. Louis Art League contemplates constructing a studio at an estimated cost of $200,000.

Austin, Tex.—Ernest Nalle plans the construction of a $100,000 opera house on Congress Ave. John Eberson, Chicago, Ill., is Arch. Noted July 30.

✚**San Antonio, Tex.**—The contract for the construction of the city and county hospital has been awarded to J. R. DAVIS. The estimated cost is $185,000. Noted Aug. 20.

Oklahoma City, Okla.—Bids will be received, until Dec. 17, by the State Capitol Commission, for the construction of the superstructure of the state capitol. Estimated cost, $1,500,000. Noted April 23.

Fresno, Calif.—R. L. Felchlin, Arch., is preparing plans for the construction of a four-story brick and steel hotel for Mrs. M. Berry Goodwin, San Francisco. The estimated cost is $75,000.

Owensmouth, Calif.—The Owensmouth Union High School District plans the construction of a $80,000 school. M. A. Gray, Chatsworth, is Pres. of the District Trustees. J. C. Austin, 1125 Baker-Detwiler Bldg., Los Angeles, is Arch.

Rio Vista, Calif.—Henry C. Smith, Arch., is preparing plans for the construction of a $50,000 school at Rio Vista.

San Francisco, Calif.—Plans are being prepared by Rousseau & Rousseau, Archs, for the construction of a four-story and basement, 35x62-ft. apartment house on Mason St., for Kiernan & O'Brien. Estimated cost, $40,000.

TWIN PEAKS TUNNEL, SAN FRANCISCO, CALIF.

✚Bids for the construction of Twin Peaks Tunnel were received by the Board of Public Works, San Francisco, Oct. 28. This was the third time that proposals were invited. On the first occasion, due to the size of the bond required by the city, there were no bidders. The contract was readvertised, Sept. 30 being the date set for receiving proposals. The only one submitted was that of Hans Pederson, who offered to do the work for $3,475,000. In his bid, however, Mr. Pederson did not comply with the terms of the city charter, which provides that there can be no alterations or interlineations in the "Form of Proposal" furnished to bidders with the specifications. The proposal was therefore rejected and Oct. 28 set as the date for opening new bids. Bids were received from (A) ROBERT C. STORRIE & CO. (awarded contract), (B) McArthur Bros., (C) Hans Pederson, (D) Twohy Bros. Co. The item bids were as follows:

	A	B	C	D
2940 lin.ft. earth (25 ft. wide x 25 ft., 7 in. high in the clear)	$300.00	$304.00	$330.00	$360.00
4020 lin.ft. soft rock (25 ft. wide x 22 ft. 4 in. high, in the clear)	250.00	245.00	265.00	266.00
2500 lin.ft. hard rock (25 ft. wide x 21 ft., 8 in. high, in the clear)	175.00	202.00	190.00	222.00
30 lin.ft., 29 ft., 6 in. section	250.00	322.00	350.00	429.00
1360 lin.ft. flat top section	400.00	320.00	260.00	233.00
1 taper connection (180 ft.)	50,000.00	61,300.00	62,850.00	68,500.00
1 easterly approach	50,000.00	24,000.00	21,000.00	26,000.00
1 retaining wall on 17th St.	10,000.00	20,000.00	37,450.00	36,000.00
1 Eureka Valley station	120,000.00	132,760.00	132,000.00	156,000.00
1 ventilating intake station (18th St.)	8,000.00	4,000.00	7,200.00	7,000.00
1 ventilating intake station (relief home)	15,000.00	30,000.00	20,000.00	22,000.00
1 Laguna Honda station	225,000.00	262,000.00	280,000.00	326,400.00
1 westerly portal	10,000.00	16,800.00	7,500.0	8,460.00
1 drain for tunnel (18th St. to Douglas St.)	2,500.00	3,800.00	4,800.00	4,700.00
1 drain in Collingwood St.	2,500.00	2,780.00	2,900.00	2,100.00
Extended totals	$3,372,000	$3,385,960	$3,450,300	$3,669,630

CATSKILL AQUEDUCT, NEW YORK, N. Y.

Moodna Siphon

✚Bids were received by the Board of Water Supply, Nov. 10, for Contract 160, constructing the Moodna Siphon supplementary shaft and tunnel of the Catskill Aqueduct in Cornwall, N. Y., from (A) OSCAR DANIELS CO., Woolworth Bldg., New York (awarded contract); (B) T. A. Gillespie Co., 50 Church St., New York; (C) Mason & Hanger Co., Van Cortlandt Park, New York; (D) Pittsburgh Contracting Co., 17 Battery Pl., New York; (E) J. F. Cogan Co., Woolworth Bldg., New York; (F) Holbrook, Cabot & Rollins Corporation and George B. Fry, 331 Madison Ave., New York; (G) Snare & Triest Co., Woolworth Bldg., New York; (H) Degnon Contracting Co., 30 East 42d St., New York; (I) Dravo Contracting Co., Diamond Bank Bldg., Pittsburgh, Penn.; (J) Smith, Hauser & MacIsaac, Inc., 18 East 41st St., New York. The item bids were as follows:

	A	B	C	D	E	F	G	H	I	J
5,000 cu.yd. excavation in shafts	$15.00	$15.00	$19.40	$17.00	$25.00	$27.55	$18.00	$22.00	$20.00	$35.00
9,600 cu.yd. excavation of tunnel	12.00	14.00	12.00	13.00	14.50	10.80	13.00	16.00	16.25	20.00
200 sq.yd. additional timming in shaft and tunnel	2.00	6.00	4.00	2.00	3.00	2.00	8.00	2.00	3.35	10.00
Care and closing of Shaft 7 (lump sum)	20,100.00	500.00	500.00	100.00	500.00	300.00	1,500.00	2,000.00	700.00	2,500.00
15,000 lb. furnishing structural steel roof support	0.025	0.025	0.03	0.07	0.03	0.01	0.04	0.02	0.04	0.035
50,000 lb. erecting structural steel roof support	0.02	0.02	0.01	0.07	0.02	0.02	0.02	0.02	0.04	0.05
10 M ft. b.m. temporary timbering	40.00	60.00	60.00	70.00	60.00	70.00	80.00	80.00	70.00	150.00
150,000 million foot-gallons pumping from shafts and tunnel	0.12	0.20	0.23	0.35	0.10	0.20	0.35	0.10	0.40	0.60
1,370 lin.ft. of drainage channels for shafts and tunnel	0.50	2.00	2.50	1.50	1.00	2.50	1.50	12.00	2.00	3.00
15,000 bbl. Portland cement	2.50	1.40	1.50	1.55	1.30	1.50	1.50	1.75	2.10	2.00
1,512 lin.ft. forms for masonry lining in shaft and tunnel	10.00	5.00	12.00	6.00	4.25	10.50	8.00	12.00	8.00	12.00
2,600 cu.yd. concrete masonry in shafts	7.00	10.50	9.50	8.00	8.00	11.43	10.50	12.00	10.50	11.00
4,700 cu.yd. concrete masonry in tunnel	8.00	11.00	9.00	8.00	8.00	7.38	10.00	6.00	9.75	14.00
400 cu.yd. excess concrete masonry	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00
100 cu.yd. dry packing in tunnel	2.00	2.00	2.00	2.00	2.00	1.00	3.50	3.00	4.00	8.00
1,500 lin.ft. steel pipe for grouting, etc	0.20	0.25	0.20	0.25	0.10	0.50	0.30	0.30	0.35	1.00
Miscellaneous plant and equipment for grouting (lump sum)	1,000.00	1,000.00	1,500.00	2,500.00	5,000.00	500.00	2,500.00	2,500.00	1,000.00	2,000.00
400 making connections of grouting machines to grout pipes	1.00	2.00	1.00	0.50	1.00	1.50	2.50	3.00	1.50	2.50
200 ton sand for grout	1.50	2.00	3.00	3.00	1.25	1.10	2.50	3.00	3.00	3.00
400 cu.yd. mixing and placing grout	2.00	10.00	7.00	3.00	4.00	6.00	8.00	9.00	12.00	20.00
11,000 lb. furnishing and erecting steel castings	0.08	0.10	0.12	0.10	0.10	0.12	0.09	0.08	0.09	0.15
8,000 lb. bronze access door and frame	0.80	0.60	0.60	0.60	0.50	0.70	0.80	0.60	0.70	0.60
50,000 lb. structural steel interlining	0.08	0.08	0.10	0.10	0.10	0.09	0.06	0.10	0.07	0.15
100 lin.ft. drilling 1½-in. or smaller holes in rock or masonry	0.40	0.30	0.40	0.30	0.40	1.00	2.00	0.50	0.40	2.00
400 lin.ft. drilling 1¾ to 2½-in. holes in rock or masonry	0.50	0.35	0.60	0.35	0.50	2.00	2.50	0.60	0.60	2.50
5,000 sq.ft. pointing and cleaning existing surfaces of concrete	0.15	0.12	0.15	0.25	0.05	0.25	0.30	0.10	0.20	0.50
10,000 lb. miscellaneous c.i., w.i. and rolled steel	0.06	0.08	0.07	0.07	0.05	0.075	0.05	0.07	0.05	0.12
4,000 lb. galvanizing	0.05	0.03	0.02	0.05	0.02	0.02	0.03	0.03	0.05	0.10
4,000 lb. bronze pipe and miscellaneous bronze	1.00	0.60	0.50	0.50	0.50	0.80	0.80	0.75	0.60	1.00
10 M ft. b.m. timber and lumber	40.00	60.00	60.00	70.00	50.00	70.00	80.00	60.00	70.00	150.00
200 lin.ft. vitrified pipe	1.00	0.75	1.50	0.80	0.50	1.00	0.60	2.50	1.00	3.00
100 cu.yd. dry rubble masonry and paving	2.00	3.50	3.00	3.00	3.00	2.00	4.00	3.50	4.00	15.00
100 cu.yd. rubble masonry and paving in mortar	3.00	4.00	4.00	5.00	4.00	4.00	5.00	4.50	5.50	17.00
Vent hole in shaft 8 plug (lump sum)	800.00	300.00	250.00	600.00	500.00	250.00	500.00	600.00	1,500.00	1,500.00
Office for engineers (lump sum)	1,250.00	750.00	600.00	1,500.00	500.00	1,000.00	1,200.00	1,000.00	1,000.00	2,500.00
10 pole removing and replacing electric power and telephone lines	15.00	15.00	20.00	10.00	10.00	5.00	30.00	50.00	100.00	25.00
Removing hoist (lump sum)	25.00	100.00	25.00	100.00	50.00	20.00	200.00	100.00	200.00	250.00
Cleaning up (lump sum)	1.00	2,500.00	500.00	1,000.00	1,000.00	1,500.00	1,000.00	5,000.00	500.00	1,500.00
50 foremen (for stopping cracks in shaft and tunnel)	7.00	6.00	8.00	10.00	6.00	6.00	6.00	8.00	8.00	6.00
150 drill-runners, calkers, riggers, and other skilled men (for stopping cracks in shaft and tunnel)	4.50	5.00	4.00	6.00	4.00	4.00	5.00	5.00	4.50	5.00
150 helpers and laborers (for stopping cracks in shaft and tunnel	3.50	3.00	2.50	3.50	3.00	3.00	3.00	2.50	2.50	4.00
Extended totals	$365,926	$382,290	$387,499	$389,207	$394,816	$409,225	$416,781	$439,099	$471,226	$663,979

Unfilled Tonnage—From the monthly unfilled tonnage report of the United States Steel Corporation it shows a total of unfilled orders on the company's books as of Oct. 31, aggregating 3,461,097 tons. This represents a decrease of 326,570 tons for the month.

The following tables gives the unfilled tonnage of the United States Steel Corporation by the months since June 30, 1910, together with tonnage at close of each quarter from June 30, 1902:

Oct. 31, '14	3,461,097	Mar. 31, '11	3,447,301
Sept. 30, '14	3,787,667	Feb. 28, '11	3,400,543
Aug. 31, '14	4,213,331	Jan. 31, '11	3,110,919
July 31, '14	4.159,589	Dec. 31, '10	2,674,757
June 30, '14	4,032,857	Nov. 30, '10	2,760,413
May 31, '14	3,998,160	Oct. 31, '10	2,871,949
Apr. 30, '14	4,277,068	Sep. 30, '10	3,156,106
Mar. 31, '14	4,653,825	Aug. 31, '10	3,537,128
Feb. 28, '14	5,026,440	July 31, '10	3,970,931
Jan. 31, '14	4,613,680	June 30, '10	4,257,794
Dec. 31, '13	4,282,108	Mar. 31, '10	5,402,514
Nov. 30, '13	4,396,347	Dec. 31, '09	5,927,031
Oct. 31, '13	4,513,767	Sep. 30, '09	4,796,833
Sep. 30, '13	5,003,785	June 30, '09	4,057,939
Aug. 31, '13	5,223,468	Mar. 31, '09	3,542,595
July 31, '13	5,399,316	Dec. 31, '08	3,603,527
June 30, '13	5,807,317	Sep. 30, '08	3,421,977
May 31, '13	6,324,432	June 30, '08	3,313,876
Apr. 30, '13	6,978,762	Mar. 31, '08	3,765,343
Mar. 31, '13	7,468,956	Dec. 31, '07	4,624,552
Feb. 28, '13	7,656,714	Sep. 30, '07	6,425,008
Jan. 31, '13	7,827,368	June 10, '07	7,603,878
Dec. 31, '12	7,932,164	Mar. 31, '07	8,043,858
Nov. 30, '12	7,852,883	Dec. 31, '06	8,489,719
Oct. 31, '12	7,594,381	Sep. 30, '06	7,936,884
Sep. 30, '12	6,551,507	June 30, '06	6,809,859
Aug. 31, '12	6,163,375	Mar. 31, '06	7,018,712
July 31, '12	5,957,079	Dec. 31, '05	7,605,086
June 30, '12	5,807,346	Sep. 30, '05	5,865,377
May 31, '12	5,750,983	June 30, '05	4,820,655
Apr. 30, '12	5,664,885	Mar. 31, '05	5,579,560
Mar. 31, '12	5,304,841	Dec. 31, '04	4,696,203
Feb. 29, '12	5,454,200	Sep. 30, '04	3,027,436
Jan. 31, '12	5,379,721	June 30, '04	3,192,277
Dec. 31, '11	5,084,761	Mar. 31, '04	4,136,961
Nov. 30, '11	4,141,955	Dec. 31, '03	3,215,123
Oct. 31, '11	3,694,328	Sep. 30, '03	3,278,742
Sep. 30, '11	3,611,317	June 30, '03	4,666,578
Aug. 31, '11	3,695,985	Mar. 31, '03	5,410,719
July 31, '11	3,584,085	Dec. 31, '02	5,347,523
June 30, '11	3,361,093	Sep. 30, '02	4,843,007
May 30, '11	3,113,187	June 30, '02	4,791,993
Apr. 30, '11	3,218,704		

Idle Equipment—From the most recent report of the American Railway Association it shows that there was a net surplus of 170,096 freight cars on the railroads of the United States and Canada on Nov. 1, 1914, compared with 151,982 Oct. 1, 1914.

The following table shows the comparative conditions of freight traffic on the railroads at various periods within the past year:

	Surplus	Shortage	Net Surp.
1914—			
Nov. 1	172,325	2,229	170,096
Oct. 15	154,342	2,360	151,982
Oct. 1	133,382	2,355	131,027
Sept. 15	138,108	2,059	136,049
Sept. 1	165,244	1,918	163,326
Aug. 15	174,260	2,115	172,145
Aug. 1	198,998	2,333	196,665
July 15	228,384	1,843	226,541
July 1	220,875	1,333	219,545
June 15	232,994	660	232,334
May 31	242,572	770	241,802
May 15	239,406	764	238,642
May 1	230,533	1,654	228,879
Apr. 15	213,324	455	212,869
Apr. 1	141,525	2,013	139,512
Mar. 15	132,010	7,145	124,865
Mar. 1	159,480	5,573	153,907
Feb. 14	199,385	2,333	197,052
Feb. 1	211,960	2,282	209,678
Jan. 15	217,274	2,385	214,889
Jan 1	190,521	1,671	188,850
1913—			
Dec. 15	107,513	5,698	101,545
Dec. 1	67,446	10,212	57,234
Nov. 15	46,059	23,407	22,652
Nov. 1	38,276	40,118	*1,842
Oct. 15	37,198	41,994	*6,048
Oct. 1	41,994	31,620	10,374

*Net shortage.

The fact that there is a comparative shrinkage in the demand for freight capacity on Nov. 1 this year of over 170,000 cars compared with the net shortage of 1842 cars at the same part of last year speaks for itself in viewing relative conditions of business in domestic lines.

Steel Company to Expand—The Wickwire Steel Co., Tonawanda, N. Y., proposes to extend its manufacturing by building a new billet mill and mills for rolling rods and wire. The company will also join with the Cement-Solvay Co., Syracuse, N. Y., in the construction of by-product coke ovens. The Wickwire Steel Co. has just filed a mortgage for $2,500,000 to provide funds for this work. It is expected that construction work will start next spring on the steel plant and coking ovens. An expenditure of $1,500,000 is being made at this time.

The Firth-Sterling Steel Co., Pittsburgh, Penn., has recently received an order from the allied forces of Europe for 20,000 three-inch, 10,000 six-inch and 5000 eight-inch shells. This is one of the largest orders booked since the beginning of the war. It is reported that some larger projectiles have been ordered from the same company.

The MacArthur Concrete Pile & Foundation Co. has appointed Douglas-Milligan Co. as its Sales Agents for Eastern Canada, with main office in the New Birks Bldg., Montreal and branch office at 95 King St., East, Toronto. The company is also equipped to construct foundations for all sorts of structures where unfavorable soil conditions are encountered. It has already done a large amount of this work both in Canada and the United States.

The MacArthur Concrete Pile & Foundation Co. has sold the patent rights to drive the Pedestal Pile in Japan to the Oriental Compressol Co., Tokio, Japan. The reputation of this important form of concrete piling is recognized by progressive Japanese engineers and contractors and this purchase emphasizes anew the spirit of enterprise and advancement of the Japanese people.

Packing Goods for Export—Probably no subject has been reiterated more by government officials and the press than that of proper packing for export. It would seem as though American manufacturers had grasped the situation by this time but evidently they have not. The following letter from Mr. Hood, the representative of "Engineering News" in South America, written from Callao, Peru, again brings this subject to the attention of manufacturers:

"I previously called attention to the carelessness of American shippers in the matter of packing. I want to reiterate that American shippers send their goods here in **crates** while foreign shippers enclose them in **boxes.**

"Americans use 1-in. and 1¼-in. material while foreigners use 2-in. and 2½-in. lumber and their boxes are all reënforced by heavy cross-braces, screwed in, and the whole protected by bands of sheet iron on exposed edges.

"It will be useless for us to create a market here if shippers do not pack their goods as described. The reason for this is that there are few harbors here and unloading is effected by transferring to lighters in heavy seas.

"The fault lies with the big shipper as well as small, and it is a wonder we have any trade here at all. Here are two instances in Quito, vouched for by Mr. Chas. S. Hartman, the American Minister to Ecuador.

"1st. The Quito Electric Light & Power Co. bought seven motors from one of the largest, if not the largest, manufacturers in the United States. These motors arrived in Quito absolutely bare of any crate or other protecting material.

2d. Senor Monje ordered laundry machines from the United States and they arrived in Quito, in flimsy crates, broken in 9 places. As the broken parts cannot be made in this country, the machines are absolutely useless. Senor Monje emphatically declared that under no circumstances will he buy anything further from the United States."

CATALOG NOTICES

The Wyoming Shovel Works, Wyoming, Penn. Catalog. Wyoming-Mayari steel shovels. Illustrated, 32 pp. 3½x6½ in.

Ingersoll-Rand Co., 11 Broadway, New York. Form No. 4033. "Little Tugger" air hoist. Illustrated, 8 pp., 6x9 in. Form No. 8013. "Little David" pneumatic chipping, calking and scaling hammers. Illustrated, 12 pp., 6x9 in. Form No. 8207. "Little David" pneumatic drills. Illustrated, 36 pp., 6x9 in.

Sprague Electric Works, 527-531 W. 34th St., New York. Bulletin No. 48,700. Monorail cranes. Illustrated, 48 pp., 8x10½ in. Bulletin No. 48,701. Electric dynamometers. Illustrated, 24 pp., 8x10½ in.

Link-Belt Co., Philadelphia, Penn. Book No. 158. Locomotive cranes. Illustrated, 38 pp., 8½x11 in.

W. E. Caldwell Co., Inc., Louisville, Ky. Catalog. Tanks and towers. Illustrated, 40 pp., 6x8½ in.

Goldschmidt Thermit Co., 90 West St., New York. Pamphlet No. 16. "The Thermit Process of Pipe Welding." Illustrated, 24 pp., 6x9 in. Pamphlet No. 39. Thermit insert fully welded rail joint. Illustrated, 4x9 in.

American Vanadium Co., Vanadium Building, Pittsburgh, Penn. Catalog. Vanadium rails. Illustrated, 24 pp., 6x9 in.

National India Rubber Co., Bristol, R. I., Catalog. Aërial and underground railroad signal wires and cables. Illustrated, 30 pp., 6x9 in.

Milwaukee Locomotive Mfg. Co., Milwaukee, Wis. Publication No. 104. Gasoline locomotives. Illustrated, 40 pp., 7x10 in.

United Iron Works Co., Springfield, Mo. Catalog. Turner combination drag line ditcher and shovel. Illustrated, 22 pp., 7x10 in.

American Blower Co., Detroit, Mich. Bulletin No. 27. Sirocco heating, ventilating and cooling system at the Ford Motor Company's plant. Illustrated, 16 pp., 8½x11 in.

General Electric Co., Schenectady, N. Y. Bulletin No. 44,003. Modern electric railway apparatus. Illustrated, 30 pp., 8x10½ in. Bulletin No. 44,300. Gas-electric motor cars and locomotives. Illustrated, 8 pp., 8x10½ in. Bulletins Nos. 44,403 and 44,405. Railway motors. Illustrated. 8x10½ in. Bulletin No. 46,018. Portable voltmeter, type P-8. Illustrated, 8x10½ in.

Atlas Engineering Co., Milwaukee, Wis. Catalog. Concrete mixers. Illustrated, 30 pp., 7x10 in.

Contracts to Be Let

Bids received until Dec. 21, 1914.

Construction of a Bridge on the Rosedale Section of the Bloor Street Viaduct

Toronto, Ontario.

Tenders will be received, by registered post only, addressed to the chairman of the Board of Control, City Hall, Toronto, Canada, up to noon on Monday, December 21st, 1914, for constructing across the Rosedale Valley a bridge 86 feet wide, consisting of one steel arch span with piers and approaches, the length being, approximately, five hundred and eighty feet; and a retaining wall, approximately one hundred and seventy feet long, extending westward from the bridge. Bidders may obtain specifications, including plans and form of tender, on application to the Commissioner of Works, Toronto, after paying to the Commissioner of Works twenty-five dollars for each set, this sum to be refunded upon return of plans. The Engineer's estimate of quantities will also be sent on request. Specifications, including plans, may be seen at the offices of the Commissioner of Works, Toronto; the Commercial Intelligence Department of the Board of Trade, London, England; The Engineering News, New York; Engineering and Contracting, Chicago, and Engineering, London, England.

Those desiring to submit tenders on reinforced concrete construction for the above bridge are hereby notified that they may prepare and submit, without any expense whatsoever to the city, their own plans and specifications, based on the loading given in the specifications for steel construction, and may tender on the same. These tenders will be received up to noon on Monday, December 21st, 1914.

Envelopes containing tenders must be plainly marked on the outside as to contents.

The usual conditions relating to tendering, as prescribed by city bylaws, must be strictly complied with, or tenders may be declared informal.

A deposit in cash or a marked cheque, equivalent to 2½ per cent. of the amount of the tender, payable to the order of the City Treasurer, must accompany each tender, which deposit will be retained until provisions of bylaw 4294 are complied with.

Tenderers shall submit with their tenders the names of two personal sureties, approved by the City Treasurer, or in lieu thereof, the bond of a Guarantee Company, approved as aforesaid.

The lowest or any tender not necessarily accepted.

H. C. HOCKEN (Mayor),
Chairman Board of Control.

City Hall, Toronto, Nov. 9th, 1914.

Bids received until Dec. 10, 1914.

Highway Work

OFFICE OF THE STATE COMMISSION OF HIGHWAYS,
Albany, New York, Nov. 18, 1914.

Sealed proposals will be received by the undersigned at their office, No. 55 Lancaster Street, Albany, N. Y., at 1 o'clock p.m., Thursday, December 10th, 1914, for the improvement of highways in the following counties.

Albany (Approx. length 8.29 miles); Cayuga County (4.58); Columbia County (1.18); Erie (4.47); Jefferson (1.08); Madison (0.45); Monroe (13.18); Orange (1.27); Orleans (8.91); Oswego (4.79); Onondaga (0.76); Saratoga (3.73); Steuben (4.27); Suffolk (5.96); Warren (0.61); Washington (1.32); Westchester (4.69).

Maps, plans, specifications and estimates may be seen and proposal forms obtained at the office of the Commission in Albany, New York, and also at the office of the Division Engineer in whose division the road is to be constructed. The addresses of the Division Engineers and the counties in which they are in charge will be furnished on request.

The especial attention of bidders is called to the "Information of Bidders" in the itemized proposal, specifications and contract agreement.

The right is reserved to reject any or all bids.

JOHN N. CARLISLE, Commissioner.

R. K. FULLER, Secretary.

Bids received until Dec. 8, 1914.

Sewage Collecting System and Outfall Sewer

North Plainfield, N. J.

Sealed proposals for constructing a sewage collecting system and outfall sewer will be received by The Borough of North Plainfield, N. J., until 8 o'clock P. M., December the 8th, 1914. Proposals should be delivered to C. M. Dolliver, Borough Clerk, at the Borough Hall, Somerset St., North Plainfield, N. J., and may be either for Sewage Collecting System and Outfall Sewer, Contract No. 1; or Sewage Collecting System, Contract No. 2; or both separately.

Contract No. 1 comprises

(a) About 4.4 miles of vitrified pipe sewers with bituminous joints, ranging from 8 to 24 inches in diameter.

(b) A small sewage pumping station.

(c) A 6-inch cast-iron force main about 1,600 feet long.

(d) A 24-inch outfall sewer approximately 1.1 miles in length, consisting partly of vitrified pipe and partly of cast-iron pipe.

Contract No. 2 comprises about 10.4 miles of vitrified pipe sewers with bituminous joints, ranging from 8 to 18 inches in diameter.

Proposals must be accompanied by a certified check on a National Bank or trust company for Twenty-five Hundred ($2,500.00) Dollars, for each contract bid upon.

The bidder to whom the contract is awarded will be required to execute same and furnish a surety bond in the sum of 50 per cent. of the amount of the contract within ten days (Sundays excepted) after receiving official notice of the award. The bond shall be satisfactory to the Borough both as to form and surety. The Borough reserves the right to reject any or all bids.

Plans and specifications may be obtained from George W. Fuller, Engineer, 170 Broadway, New York, N. Y., upon depositing $25, which will be refunded if said plans and specifications are returned in good condition within thirty days after bids have been received and acted upon by the said Borough.

Bids should be made on the blank Form of Proposal bound with the specifications, and in case it is desired to bid on both contracts, each bid should be made in a separate pamphlet.

C. M. DOLLIVER, Borough Clerk.

Bids received until Dec. 9, 1914.

Somers Point—Longport Boulevard

Atlantic City, N. J.

Sealed bids will be received by the Board of Chosen Freeholders of Atlantic County, N. J., at Twelve o'clock, noon, December 9th, 1914, in Memorial Hall, Atlantic City, N. J., for the improvement of the Somers Point-Longport Boulevard, Atlantic County, N. J.

Said boulevard to be 4.11 miles long, graveled to the width of 40 feet. Contract will include furnishing in place 48 inch cross drains with concrete head walls, building small creosoted timber pile bridges, and furnishing in place creosoted timber bulkheads.

Plans and specifications may be seen at the office of the Engineer for Atlantic County at No. 636 Bartlett Building, Atlantic City, and copies may be had for a deposit of $5.00 for each set of plans and specifications. Such deposit will be returned if plans and specifications are returned in good condition by noon December 10th, 1914.

Certified check to the amount of $1000 will be required of each bidder and a bond in the full amount of the contract will be required of the Contractor.

The right is reserved to reject any or all bids.

GEORGE B. JEFFERS,
Chairman Road Committee.

A. H. NELSON,
Engineer for Atlantic County.